

BAB IV

IMPLEMENTASI DAN PENGUJIAN

4.1 Implementasi Sistem

Implementasi merupakan penerapan analisis dan perancangan yang telah dibahas dalam bab sebelumnya. Implementasi *system* Aplikasi Pengelolaan Administrasi Penggajian Pada PT. BSR Indonesia Berbasis Web membutuhkan dua aspek agar *system* dapat dijalankan, yaitu spesifikasi kebutuhan *system* yang meliputi perangkat keras dan perangkat lunak.

4.1.1 Kebutuhan Perangkat Keras

Kebutuhan (spesifikasi) perangkat keras sebagai berikut:

- a. Processor Intel ® Core™ i3-3230M CPU @ 2.60GHz
- b. Hardisk 500Gb
- c. RAM 4Gb
- d. Monitor
- e. Keyboard
- f. Mouse

4.1.2 Kebutuhan Perangkat Lunak

Kebutuhan (spesifikasi) perangkat lunak sebagai berikut:

- a. Sistem Operasi Windows 8 Ultimate 64-bit
- b. XAMPP untuk web server
- c. Google Chrome browser

4.2 Implementasi Basis Data

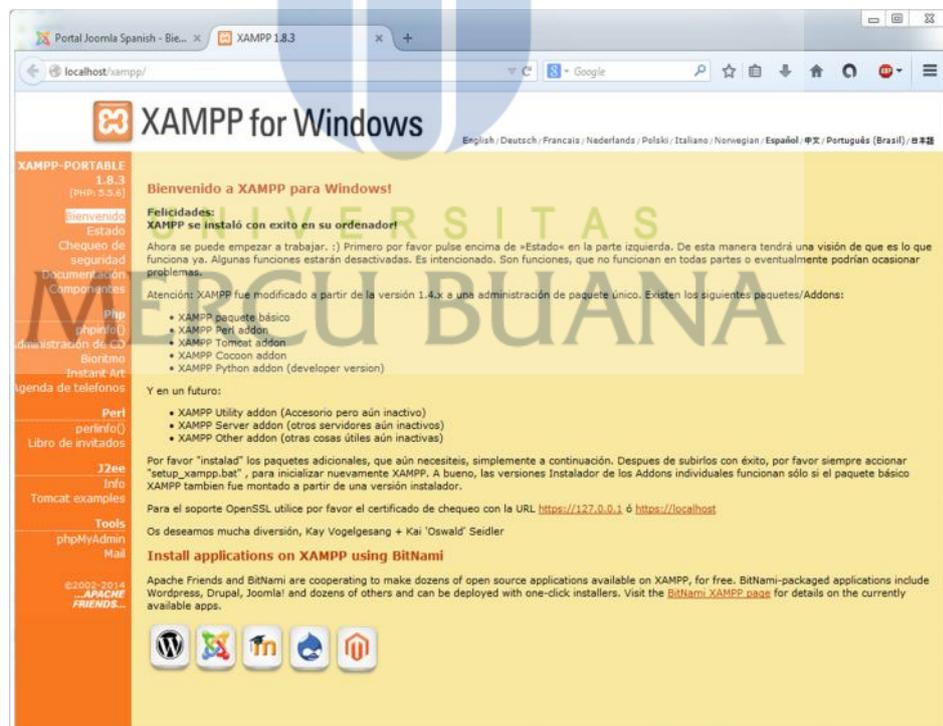
Implementasi basis data merupakan tahapan dimana melakukan pembuatan *database* pada server sesuai dengan yang telah direncanakan sebelumnya. Berikut tampilan *database* Aplikasi Pengelolaan Administrasi Penggajian Pada PT. BSR Indonesia Berbasis Web.

4.2.1 Pastikan XAMPP sudah terinstall di PC serta Apache dan MySQL sudah running



Gambar 4.1 Tampilan Layar XAMPP Control Panel

4.2.2 Buka XAMPP MySQL pada Browser, pilih PHPmyadmin pada sidebar sebelah kiri



Gambar 4.2 Tampilan Layar Localhost XAMPP Pada Browser

Dibawah ini adalah cara pembuatan *database* pada MySQL dengan menggunakan *PHP*, adapun langkah adalah sebagai berikut :

4.2.3 Implementasi Tampilan Awal Pembuatan *Database*

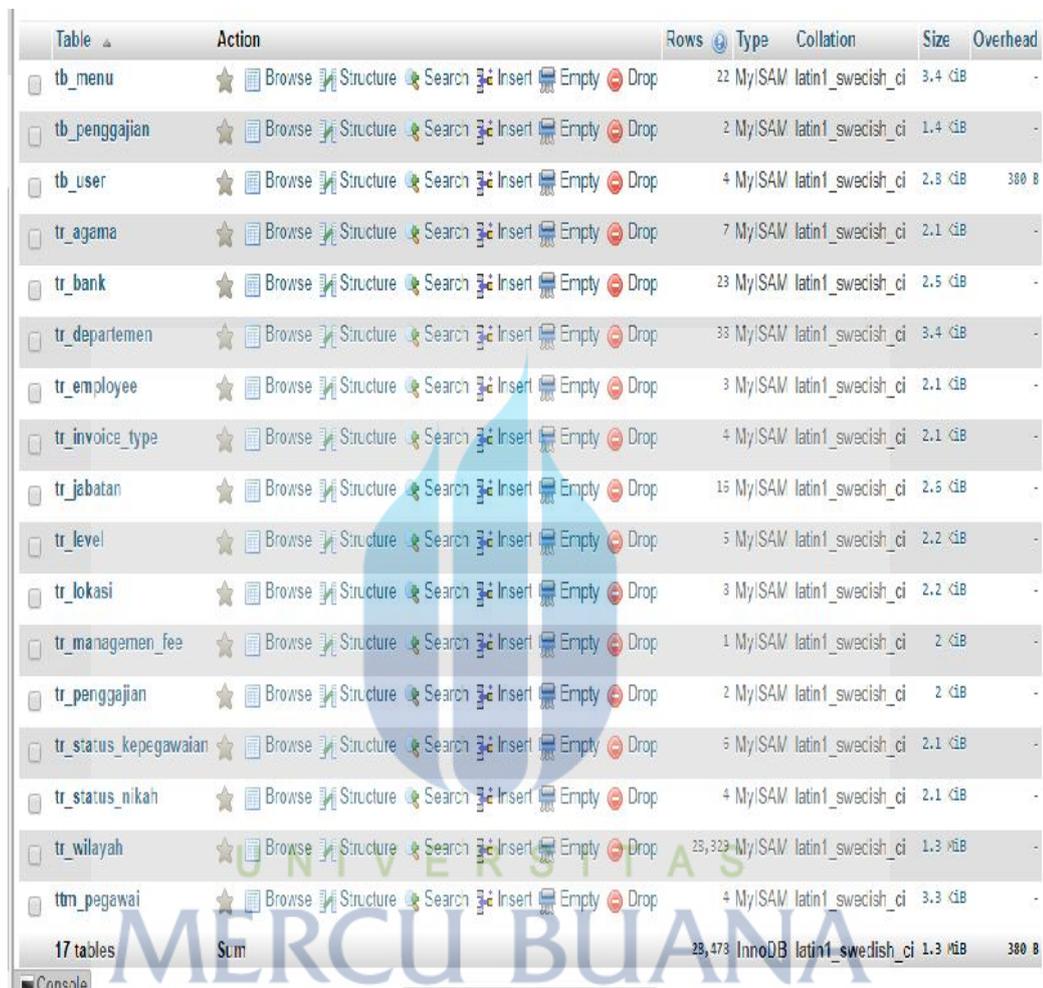


Table	Action	Rows	Type	Collation	Size	Overhead
tb_menu	★ Browse Structure Search Insert Empty Drop	22	MyISAM	latin1_swedish_ci	3.4 KiB	-
tb_penggajian	★ Browse Structure Search Insert Empty Drop	2	MyISAM	latin1_swedish_ci	1.4 KiB	-
tb_user	★ Browse Structure Search Insert Empty Drop	4	MyISAM	latin1_swedish_ci	2.8 KiB	380 B
tr_agama	★ Browse Structure Search Insert Empty Drop	7	MyISAM	latin1_swedish_ci	2.1 KiB	-
tr_bank	★ Browse Structure Search Insert Empty Drop	23	MyISAM	latin1_swedish_ci	2.5 KiB	-
tr_departemen	★ Browse Structure Search Insert Empty Drop	33	MyISAM	latin1_swedish_ci	3.4 KiB	-
tr_employee	★ Browse Structure Search Insert Empty Drop	3	MyISAM	latin1_swedish_ci	2.1 KiB	-
tr_invoice_type	★ Browse Structure Search Insert Empty Drop	4	MyISAM	latin1_swedish_ci	2.1 KiB	-
tr_jabatan	★ Browse Structure Search Insert Empty Drop	15	MyISAM	latin1_swedish_ci	2.5 KiB	-
tr_level	★ Browse Structure Search Insert Empty Drop	5	MyISAM	latin1_swedish_ci	2.2 KiB	-
tr_lokasi	★ Browse Structure Search Insert Empty Drop	3	MyISAM	latin1_swedish_ci	2.2 KiB	-
tr_managemen_fee	★ Browse Structure Search Insert Empty Drop	1	MyISAM	latin1_swedish_ci	2 KiB	-
tr_penggajian	★ Browse Structure Search Insert Empty Drop	2	MyISAM	latin1_swedish_ci	2 KiB	-
tr_status_kepegawaian	★ Browse Structure Search Insert Empty Drop	5	MyISAM	latin1_swedish_ci	2.1 KiB	-
tr_status_nikah	★ Browse Structure Search Insert Empty Drop	4	MyISAM	latin1_swedish_ci	2.1 KiB	-
tr_wilayah	★ Browse Structure Search Insert Empty Drop	23,323	MyISAM	latin1_swedish_ci	1.3 MiB	-
ttn_pegawai	★ Browse Structure Search Insert Empty Drop	4	MyISAM	latin1_swedish_ci	3.3 KiB	-
17 tables	Sum	23,473	InnoDB	latin1_swedish_ci	1.3 MiB	380 B

Gambar 4.3 Implementasi Tampilan Awal Pembuatan *Database*

4.2.4 Implementasi Tabel tb_menu

```
CREATE TABLE IF NOT EXISTS `tb_menu` (
  `ID_MENU` int(20) NOT NULL,
  `MENU_TITLE` varchar(225) DEFAULT NULL,
  `ID_UPPER` int(20) DEFAULT NULL,
  `ORDER_NO` int(20) DEFAULT '0',
  `PATH_INDEX` varchar(225) DEFAULT NULL,
  `P_HRMS` int(20) DEFAULT '0',
  `P_ADMIN_BACKUP` int(20) DEFAULT '0',
  `P_PELANGGAN` int(20) DEFAULT '0',
  `P_MASTER` int(20) DEFAULT '0',
  `P_BPJS_KES` int(20) DEFAULT '0',
  `P_BPJS_TK` int(20) DEFAULT '0',
  `P_REKRUITMENT` int(20) DEFAULT '0',
  `P_ADMIN_USER` int(20) DEFAULT '0'
) ENGINE=MyISAM AUTO_INCREMENT=65 DEFAULT CHARSET=latin1 PACK_KEYS=0;
```



The screenshot shows a database management tool interface with the table structure for 'tb_menu' displayed. The table has 9 columns with the following details:

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	ID_MENU	int(20)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext More
2	MENU_TITLE	varchar(225)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext More
3	ID_UPPER	int(20)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext More
4	ORDER_NO	int(20)			Yes	0		Change Drop Primary Unique Index Spatial Fulltext More
5	PATH_INDEX	varchar(225)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext More
6	P_ADMIN	int(20)			Yes	1		Change Drop Primary Unique Index Spatial Fulltext More
7	P_HRD	int(20)			Yes	0		Change Drop Primary Unique Index Spatial Fulltext More
8	P_PAYROLL	int(20)			Yes	0		Change Drop Primary Unique Index Spatial Fulltext More
9	P_KEUANGAN	int(20)			Yes	0		Change Drop Primary Unique Index Spatial Fulltext More

Gambar 4.4 Implementasi Tabel tb_menu

4.2.5 Implementasi Tabel tb_penggajian

```

74
75 CREATE TABLE IF NOT EXISTS `tb_penggajian` (
76   `NO_PEG` bigint(15) NOT NULL,
77   `ID_GAJI` bigint(15) DEFAULT NULL,
78   `FEE_PERUSAHAAN` int(50) DEFAULT NULL,
79   `UMP` int(50) DEFAULT NULL,
80   `BASIC_SALARY` int(50) DEFAULT NULL,
81   `MITRA_KERJA` int(50) DEFAULT NULL,
82   `TUNJ_JABATAN` int(50) DEFAULT NULL,
83   `TUNJ_GRADING` int(50) DEFAULT NULL,
84   `TUNJ_SPECIAL` int(50) DEFAULT NULL,
85   `TUNJ_KEAHLIAN` int(50) DEFAULT NULL,
86   `TUNJ_LAIN` int(50) DEFAULT NULL,
87   `LEMBUR` int(50) DEFAULT NULL,
88   `TUNJ_KENDARAAN` int(50) DEFAULT NULL,
89   `BONUS_THR` int(50) DEFAULT NULL,
90   `RAPEL` int(50) DEFAULT NULL,
91   `TUNJ_KEHADIRAN` int(50) DEFAULT NULL,
92   `LUMPSUM_PENDIDIKAN` int(50) DEFAULT NULL,
93   `LUMPSUM_LEMBUR` int(50) DEFAULT NULL,
94   `INSENTIF` int(50) DEFAULT NULL,
95   `TOTAL` int(50) DEFAULT NULL,
96   `POTONGAN_MAKAN` int(50) DEFAULT NULL,
97   `DECODER` int(50) DEFAULT NULL,
98   `POTONGAN_HUTANG` int(50) DEFAULT NULL,
99   `AR_PERUSAHAAN` int(50) DEFAULT NULL,
100  `IURAN_KOPERASI` int(50) DEFAULT NULL,
101  `POTONGAN_LAIN` int(50) DEFAULT NULL,
102  `GROSS_SALARY` int(50) DEFAULT NULL,
103  `BPJS_KESEHATAN` int(50) DEFAULT NULL,
104  `BPJS_TENAGAKERJA` int(50) DEFAULT NULL,
105  `JAMINAN_PENSIUN` int(50) DEFAULT NULL,
106  `ADM_BANK` int(50) DEFAULT NULL,
107  `THP` int(50) DEFAULT NULL,
108 ) ENGINE=MyISAM DEFAULT CHARSET=latin1 PACK_KEYS=0;
109

```

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	NO_PEG	bigint(15)			No		Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
2	ID_GAJI	bigint(15)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
3	TAHAN	int(10)			No	0	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
4	BULAN	int(10)			No	0	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
5	FEE_PERUSAHAAN	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
6	UMP	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
7	BASIC_SALARY	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
8	MITRA_KERJA	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
9	TUNJ_JABATAN	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
10	TUNJ_GRADING	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
11	TUNJ_SPEBIAL	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
12	TUNJ_KEAHLIAN	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
13	TUNJ_LAIN	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
14	LEMBUR	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
15	TUNJ_KENDARAAN	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
16	BONUS_THR	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
17	RAPEL	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
18	TUNJ_KEHADIRAN	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
19	LUMPSUM_PENDIDIKAN	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
20	LUMPSUM_LEMBUR	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
21	INSENTIF	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
22	TOTAL	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
23	POTONGAN_MAKAN	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
24	DECODER	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
25	POTONGAN_HUTANG	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
26	AR_PERUSAHAAN	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
27	IURAN_KOPERASI	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
28	POTONGAN_LAIN	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
29	TOTAL_DEDUCTION	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
30	GROSS_SALARY	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
31	BPJS_KESEHATAN	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
32	BPJS_TENAGAKERJA	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
33	JAMINAN_PENSIUN	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
34	ADM_BANK	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
35	FEE	int(50)			No	0	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
36	THP	int(50)			Yes	NULL	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
37	POT_BPJS_KESE	int(10)			No	0	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
38	POT_BPJS_TK	int(10)			No	0	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
39	POT_PENSIUN	int(10)			No	0	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
40	POT_ADM_BANK	int(10)			No	0	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
41	AB_BEN_BI	int(10)			No	0	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
42	LATE	int(10)			No	0	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
43	TUNJ_HARIAN	int(50)			Yes	0	Primary	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns

Gambar 4.5 Implementasi Tabel tb_penggajian

4.2.6 Implementasi Tabel tb_user

```
CREATE TABLE IF NOT EXISTS `tb_user` (
  `ID_USER` int(20) NOT NULL,
  `USERNAME` varchar(225) DEFAULT NULL,
  `PASSWORD` varchar(225) DEFAULT NULL,
  `NAMA LENGKAP` varchar(225) DEFAULT NULL,
  `EMAIL` varchar(225) DEFAULT NULL,
  `NO_HP` varchar(225) DEFAULT NULL,
  `TANDA_AKTIF` int(20) DEFAULT NULL,
  `STATUS_USER` int(11) DEFAULT NULL
) ENGINE=MyISAM AUTO_INCREMENT=8 DEFAULT CHARSET=latin1 PACK_KEYS=0;
```

EDIT STRUCTURE | KEYS | KEYS VIEW

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	ID_USER	int(20)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Scatal Fulltext Distinct values Add to central col.mns
2	USERNAME	varchar(225)			Yes	NULL		Change Drop Primary Unique Index Scatal Fulltext Distinct values Add to central col.mns
3	PASSWORD	varchar(225)			Yes	NULL		Change Drop Primary Unique Index Scatal Fulltext Distinct values Add to central col.mns
4	NAMA LENGKAP	varchar(225)			Yes	NULL		Change Drop Primary Unique Index Scatal Fulltext Distinct values Add to central col.mns
5	EMAIL	varchar(225)			Yes	NULL		Change Drop Primary Unique Index Scatal Fulltext Distinct values Add to central col.mns
6	NO_HP	varchar(225)			Yes	NULL		Change Drop Primary Unique Index Scatal Fulltext Distinct values Add to central col.mns
7	TANDA_AKTIF	int(20)			Yes	NULL		Change Drop Primary Unique Index Scatal Fulltext Distinct values Add to central col.mns
8	STATUS_USER	int(11)			Yes	NULL		Change Drop Primary Unique Index Scatal Fulltext Distinct values Add to central col.mns
9	JENIS_USER	int(4)			No	0		Change Drop Primary Unique Index Scatal Fulltext Distinct values Add to central col.mns

Gambar 4.6 Implementasi Tabel tb_user

4.2.7 Implementasi Tabel tr_agama

```
INSERT INTO `tr_agama` (`ID_AGAMA`, `AGAMA`) VALUES
(1, 'ISLAM'),
(2, 'KRISTEN'),
(3, 'KATHOLIK'),
(4, 'HINDU'),
(5, 'BUDHA'),
(6, 'LAINNYA'),
(15, 'KHONGHUCU');
```



#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	ID_AGAMA	int(4)			No	None	ALTO_INCREMENT	Change, Drop, Primary, Unique, Index, Social, Fulltext, Distinct values, Add to parent columns
2	AGAMA	varchar(100)			Yes	NULL		Change, Drop, Primary, Unique, Index, Social, Fulltext, Distinct values, Add to parent columns

Gambar 4.7 Implementasi Tabel tr_agama

4.2.8 Implementasi Tabel tr_bank

```
INSERT INTO `tr_bank` (`ID_BANK`, `BANK`) VALUES
(1, 'MANDIRI '),
(2, 'BCA '),
(3, 'MNC BANK '),
(4, 'MANDIRI SYARIAH '),
(5, 'BRI '),
(6, 'BCA PONDOK LESTARI '),
(7, 'BRI BRITAMA '),
(8, 'BCA ROXI MAS '),
(9, 'BCA PASAR CIPULIR '),
(10, 'BCA ROXY MAS '),
(11, 'BNI '),
(12, 'BRI SIMPEDES '),
(13, 'BCA COMAL '),
(14, 'MANDIRI '),
(15, 'PERMATA BANK '),
(16, 'MANDIRI ROXY MAS '),
(17, 'MNC '),
(18, 'BTN '),
(19, 'BJB '),
(20, '#N/A'),
(21, 'BCA BONA INDAH '),
(22, 'BCA KCP BUMI PERMATA INDAH '),
(23, 'BCA GREEN GARDEN');
```

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	ID_BANK	int(4)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
2	BANK	varchar(255)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns

Check all With selected Browse Change Drop Primary Unique Index Fulltext Add to central columns Remove from central columns

Gambar 4.8 Implementasi Tabel tr_bank

4.2.9 Tabel tr_departemen

```

database.sql  x  Tb_menu.php  x
INSERT INTO `tr_departemen` (`ID_DEPARTEMEN`, `DEPARTEMEN`) VALUES
(1, 'Administrasi Indovision'),
(2, 'SMATV & VIP'),
(3, 'Importasi & Distribusi'),
(4, 'Sales Operation'),
(5, 'Door To Door (DTD) Indoision'),
(6, 'Modern Store & Exhibition Okevision'),
(7, 'Technical Services Central Regional-1'),
(8, 'Administrasi Okevision'),
(9, 'Corporate Technical Services West Region'),
(10, 'Regional Branch Operations (Central)'),
(11, 'Door To Door (DTD) Top TV'),
(12, 'Modern Store & Exhibition Top TV'),
(13, 'Research & QC'),
(14, 'Upselling'),
(15, 'Outbound Reminder & Retention 1'),
(16, 'Support Data Management'),
(17, 'Inbound'),
(18, 'Area Operation Jabodetabekcilpan'),
(19, 'Dealer Indoision'),
(20, 'Warehousing'),
(21, 'Business Support Commercial Sales'),
(22, 'Reg Branch Operations West'),
(23, 'Subscriber Operations'),
(24, 'Administrasi Top TV'),
(25, 'Admin & Support Technical Services'),
(26, 'Logistic Central Area'),
(27, 'General Affairs'),
(28, 'Transportation'),
(29, 'Modern Store & Exhibition Indoision'),
(30, 'Sales Corner Indoision'),
(31, 'Outbound Reminder & Retention 2'),
(32, 'Door To Door (DTD) Okevision'),
(33, 'Advertising Sales II'),
(34, 'Subscriber Verification Management'),
(35, 'Area Operation Jawa Barat'),
(36, 'System Development - Subscriber'),
(37, 'Modern Store & Exhibition Oke Vision'),
(38, 'Customer Care Outbound & Support');

```

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	ID_DEPARTEMEN	int(4)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
2	DEPARTEMEN	varchar(255)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns

Gambar 4.9 Tabel tr_departemen

4.2.10 Implementasi Tabel tr_employee

```
INSERT INTO `tr_employee` (`ID_EMPLOYEE`, `EMPLOYEE`) VALUES
(2, 'Mitra Kerja'),
(3, 'Kontrak Project'),
(1, 'Outs Kontrak');
```

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	ID_EMPLOYEE	int(4)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
2	EMPLOYEE	varchar(100)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns

Gambar 4.10 Implementasi Tabel tr_employee

4.2.11 Implementasi Tabel tr_invoice_type

```

INSERT INTO `tr_invoice_type` (`ID_INVOICE_TYPE`, `INVOICE_TYPE`) VALUES
(2, 'Existing'),
(3, 'Musantara Vision - Existing'),
(4, 'Existing Project'),
(1, 'Renewal');

```

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	ID_INVOICE_TYPE	int(4)			No	AUTO_INCREMENT		Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
2	INVOICE_TYPE	varchar(100)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns

Gambar 4.11 Implementasi Tabel tr_invoice_type

4.2.12 Implementasi Tabel tr_jabatan

```

CREATE TABLE IF NOT EXISTS `tr_jabatan` (
  `ID_JABATAN` bigint(15) NOT NULL,
  `JABATAN` varchar(255) DEFAULT NULL,
  `ID_UPPER` int(4) DEFAULT NULL,
  `ID_LEVEL` int(4) DEFAULT NULL,
  `ORDERNO` int(5) NOT NULL DEFAULT '0',
  `JOBDESC` blob,
  `JABATAN_SHORT` varchar(25) DEFAULT NULL
) ENGINE=MyISAM AUTO_INCREMENT=17 DEFAULT CHARSET=latin1;

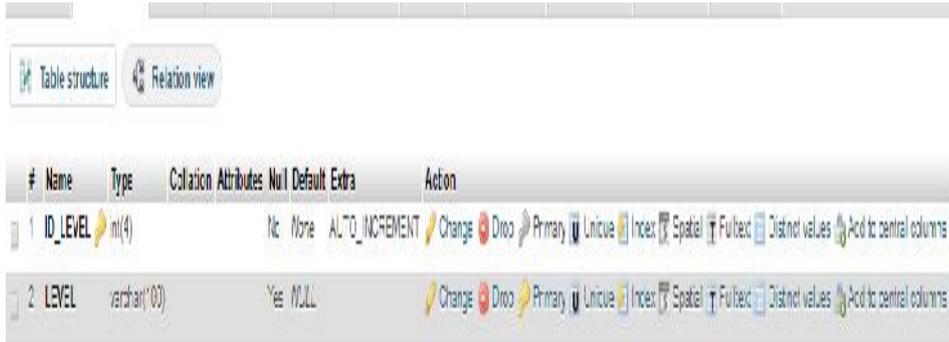
```

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	ID_JABATAN	bigint(16)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to certain columns
2	JABATAN	varchar(255)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to certain columns
3	ID_UPPER	int(4)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to certain columns
4	ID_LEVEL	int(4)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to certain columns
6	ORDERNO	int(5)			No	0		Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to certain columns
6	JOBDESC	blob			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to certain columns
7	JABATAN_SHORT	varchar(25)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to certain columns

Gambar 4.12 Implementasi Tabel tr_jabatan

4.2.13 Implementasi Tabel tr_level

```
CREATE TABLE IF NOT EXISTS `tr_level` (
  `ID_LEVEL` int(4) NOT NULL,
  `LEVEL` varchar(100) DEFAULT NULL,
) ENGINE=MyISAM AUTO_INCREMENT=17 DEFAULT CHARSET=latin1;
```

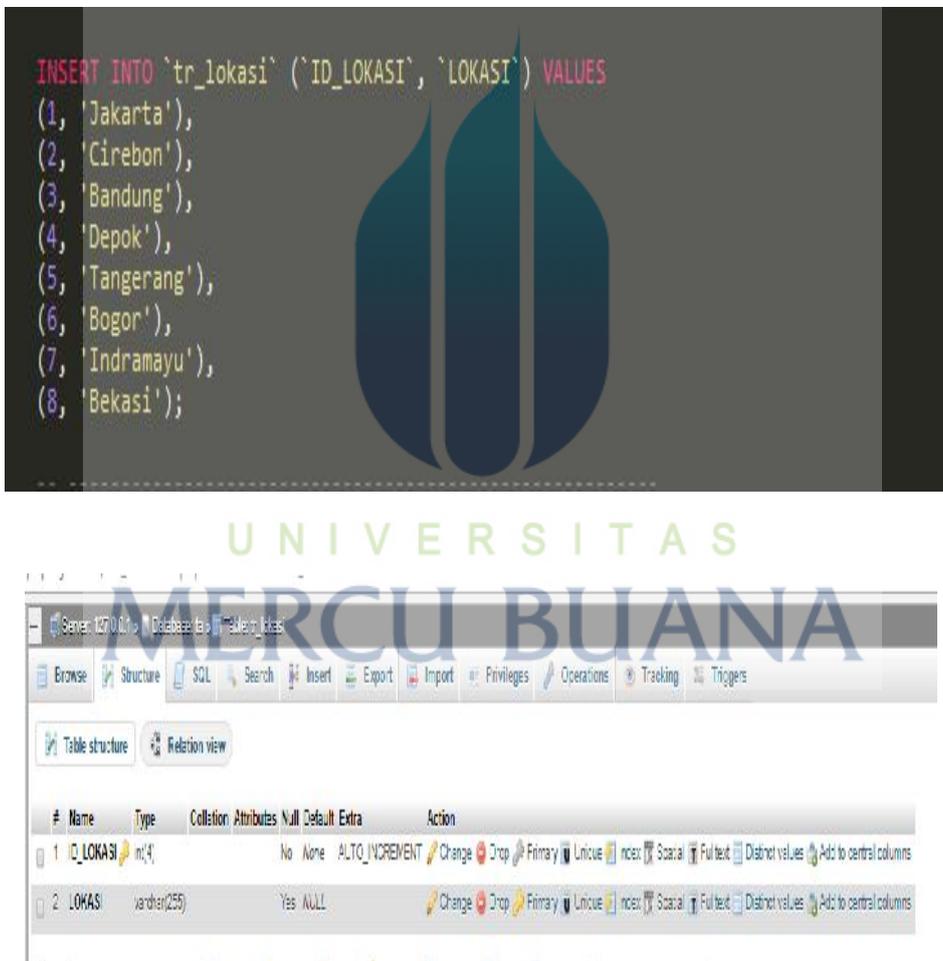


The screenshot shows the 'Table structure' view for a table named 'tr_level'. It displays two columns: 'ID_LEVEL' and 'LEVEL'. 'ID_LEVEL' is an integer (int(4)) with 'AUTO_INCREMENT' and 'PRIMARY' attributes. 'LEVEL' is a varchar(100) with 'NULL' as its default value.

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	ID_LEVEL	int(4)		Primary	No		AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
2	LEVEL	varchar(100)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns

Gambar 4.13 Implementasi Tabel tr_level

4.2.14 Implementasi Tabel tr_lokasi



The top part of the image shows an SQL query to insert data into the 'tr_lokasi' table. The query lists eight locations: Jakarta, Cirebon, Bandung, Depok, Tangerang, Bogor, Indramayu, and Bekasi.

```
INSERT INTO `tr_lokasi` (`ID_LOKASI`, `LOKASI`) VALUES
(1, 'Jakarta'),
(2, 'Cirebon'),
(3, 'Bandung'),
(4, 'Depok'),
(5, 'Tangerang'),
(6, 'Bogor'),
(7, 'Indramayu'),
(8, 'Bekasi');
```

The bottom part of the image shows the 'Table structure' view for 'tr_lokasi' in a MySQL database. It displays two columns: 'ID_LOKASI' and 'LOKASI'. 'ID_LOKASI' is an integer (int(4)) with 'AUTO_INCREMENT' and 'PRIMARY' attributes. 'LOKASI' is a varchar(255) with 'NULL' as its default value.

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	ID_LOKASI	int(4)		Primary	No		AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
2	LOKASI	varchar(255)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns

Gambar 4.14 Implementasi Tabel tr_lokasi

4.2.15 Implementasi Tabel tr_managemen_fee

```

715
716 CREATE TABLE IF NOT EXISTS `tr_managemen_fee` (
717   `ID` int(4) NOT NULL,
718   `FEE` int(10) DEFAULT NULL
719 ) ENGINE=MyISAM AUTO_INCREMENT=17 DEFAULT CHARSET=latin1;
720

```

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	ID	int(4)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
2	FEE	int(10)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns

Gambar 4.15 Tabel tr_managemen_fee

4.2.16 Implementasi Tabel tr_penggajian

```

CREATE TABLE IF NOT EXISTS `tr_penggajian` (
  `ID_GAJI` int(4) NOT NULL,
  `TAHUN` int(4) DEFAULT NULL,
  `BULAN` int(4) DEFAULT NULL
) ENGINE=MyISAM AUTO_INCREMENT=10 DEFAULT CHARSET=latin1;

```

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	ID_GAJI	int(4)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
2	TAHUN	int(4)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
3	BULAN	int(4)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns

Gambar 4.16 Implementasi Tabel tr_penggajian

4.2.17 Implementasi Tabel tr_statu_kepegawaian

```
INSERT INTO `tr_status_kepegawaian` (`ID_STATUS_KEPEGAWAIAN`, `STATUS_KEPEGAWAIAN`) VALUES
(1, 'TETAP'),
(2, 'KONTRAK'),
(3, 'MAGANG'),
(4, 'HARIAN'),
(7, 'MITRA KERJA'),
(9, 'PERCOBAAN');
```

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	ID_STATUS_KEPEGAWAIAN	int(4)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
2	STATUS_KEPEGAWAIAN	varchar(100)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns

Gambar 4.17 Implementasi Tabel tr_statu_kepegawaian

4.2 Implementasi Tabel tr_status_nikah

```
INSERT INTO `tr_status_nikah` (`ID_STATUS_NIKAH`, `STATUS_NIKAH`) VALUES
(1, 'Belum Nikah'),
(2, 'Menikah'),
(3, 'Duda/Janda'),
(4, 'Lain-lain');
```

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	ID_STATUS_NIKAH	int(4)			No	None	AUTO_INCREMENT	Change, Conc, Primary, Unique, Index, Spatial, Fulltext, Distinct values, Auto/incremental columns
2	STATUS_NIKAH	varchar(100)			Yes	NULL		Change, Conc, Primary, Unique, Index, Spatial, Fulltext, Distinct values, Auto/incremental columns

Gambar 4.18 Implementasi Tabel tr_status_nikah

4.2.19 Implementasi Tabel tr_wilayah

```
CREATE TABLE IF NOT EXISTS `tr_wilayah` (
  `wilayah_id` int(50) NOT NULL,
  `wilayah_pid` int(50) DEFAULT NULL,
  `wilayah_kode_pos` varchar(200) DEFAULT NULL,
  `wilayah_kode` varchar(200) DEFAULT NULL,
  `wilayah_nama` varchar(200) DEFAULT NULL,
  `wilayah_status` int(50) DEFAULT NULL
) ENGINE=MyISAM AUTO_INCREMENT=40012 DEFAULT CHARSET=latin1;
```

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	wilayah_id	int(50)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext Disintz values Add to central columns
2	wilayah_zid	int(50)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Disintz values Add to central columns
3	wilayah_kcde_pos	varchar(200)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Disintz values Add to central columns
4	wilayah_kcde	varchar(200)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Disintz values Add to central columns
5	wilayah_nama	varchar(200)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Disintz values Add to central columns
6	wilayah_status	int(50)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Disintz values Add to central columns

Gambar 4.19 Implementasi Tabel tr_wilayah

4.2.20 Implementasi Tabel ttm_pegawai

```
CREATE TABLE IF NOT EXISTS `ttm_pegawai` (
  `NO_PEG` bigint(15) NOT NULL,
  `NO_NIP` varchar(255) NOT NULL DEFAULT '',
  `NAMA` varchar(255) DEFAULT NULL,
  `NAMA_ALIAS` varchar(255) DEFAULT NULL,
  `TGL_LAHIR` date DEFAULT NULL,
  `TEMPAT_LAHIR` varchar(100) DEFAULT NULL,
  `SEX` varchar(20) DEFAULT NULL,
  `TELEPON` varchar(255) DEFAULT NULL,
  `HP` varchar(255) DEFAULT NULL,
  `KODE_POS` varchar(20) DEFAULT NULL,
  `STATUS_NIKAH` varchar(200) DEFAULT NULL,
  `JUMLAH_ANAK` int(2) DEFAULT NULL,
  `NO_KTP` varchar(255) DEFAULT NULL,
  `SIM` varchar(255) DEFAULT NULL,
  `GOL_DARAH` varchar(100) DEFAULT NULL,
  `ID_AGAMA` int(4) DEFAULT NULL,
  `NO_KENDARAAN` varchar(20) DEFAULT NULL,
  `NO_BPJS_KES` varchar(30) DEFAULT NULL,
  `NO_JAMSOSTEK` varchar(30) DEFAULT NULL,
  `TANGGAL_MASUK` date DEFAULT NULL,
  `TANGGAL_KELUAR` date DEFAULT NULL,
  `ALASAN_KELUAR` varchar(255) DEFAULT NULL,
  `STATUS_KERJAAKTIF` int(2) DEFAULT '1',
  `EMAIL` varchar(255) DEFAULT NULL,
  `NO_NPWP` varchar(255) DEFAULT NULL,
  `JENIS_SIM` varchar(10) DEFAULT NULL,
  `ID_BANK1` varchar(4) DEFAULT NULL,
  `ID_CABANGBANK1` varchar(255) DEFAULT NULL,
  `ATASNAMA_BANK1` varchar(255) DEFAULT NULL,
  `NOREK_BANK1` varchar(255) DEFAULT NULL,
  `ALAMAT_IDENTITAS` varchar(255) DEFAULT NULL,
  `RT_IDENTITAS` varchar(255) DEFAULT NULL,
  `RW_IDENTITAS` varchar(255) DEFAULT NULL,
  `KELURAHAN_IDENTITAS` varchar(255) DEFAULT NULL,
  `KECAMATAN_IDENTITAS` varchar(255) DEFAULT NULL,
  `KOTA_IDENTITAS` varchar(255) DEFAULT NULL,
  `KODE_POS_IDENTITAS` varchar(255) DEFAULT NULL,
  `PROVINSI_IDENTITAS` varchar(255) DEFAULT NULL,
  `NEGARA_IDENTITAS` varchar(255) DEFAULT NULL,
  `NAMA_IBU_KANDUNG` varchar(255) DEFAULT NULL,
  `NO_KK` varchar(255) DEFAULT NULL,
  `ID_JABATAN` int(50) DEFAULT NULL,
```

```

`STATUS_KERJAAKTIF` int(2) DEFAULT '1',
`EMAIL` varchar(255) DEFAULT NULL,
`NO_NPWP` varchar(255) DEFAULT NULL,
`JENIS_SIM` varchar(10) DEFAULT NULL,
`ID_BANK1` varchar(4) DEFAULT NULL,
`ID_CABANGBANK1` varchar(255) DEFAULT NULL,
`ATASNAMA_BANK1` varchar(255) DEFAULT NULL,
`NOREK_BANK1` varchar(255) DEFAULT NULL,
`ALAMAT_IDENTITAS` varchar(255) DEFAULT NULL,
`RT_IDENTITAS` varchar(255) DEFAULT NULL,
`RW_IDENTITAS` varchar(255) DEFAULT NULL,
`KELURAHAN_IDENTITAS` varchar(255) DEFAULT NULL,
`KECAMATAN_IDENTITAS` varchar(255) DEFAULT NULL,
`KOTA_IDENTITAS` varchar(255) DEFAULT NULL,
`KODE_POS_IDENTITAS` varchar(255) DEFAULT NULL,
`PROPINSI_IDENTITAS` varchar(255) DEFAULT NULL,
`NEGARA_IDENTITAS` varchar(255) DEFAULT NULL,
`NAMA_IBU_KANDUNG` varchar(255) DEFAULT NULL,
`NO_KK` varchar(255) DEFAULT NULL,
`ID_JABATAN` int(50) DEFAULT NULL,
`ID_DEPARTEMEN` int(50) DEFAULT NULL,
`ID_KOTA` int(50) DEFAULT NULL,
`ID_LEVEL` int(50) DEFAULT NULL,
`ID_EMPLOYEE` int(50) DEFAULT NULL,
`TANGGAL_AWAL_KONTRAK` date DEFAULT NULL,
`TANGGAL_AKHIR_KONTRAK` date DEFAULT NULL,
`INVOICE_TYPE` varchar(255) DEFAULT NULL,
`UMP` int(50) DEFAULT NULL,
`BASIC_SALARY` int(50) DEFAULT NULL,
`MITRA_KERJA` int(50) DEFAULT NULL,
`TUNJ_JABATAN` int(50) DEFAULT NULL,
`TUNJ_GRADING` int(50) DEFAULT NULL,
`TUNJ_SPECIAL` int(50) DEFAULT NULL,
`TUNJ_KEAHLIAN` int(50) DEFAULT NULL,
`TUNJ_LAIN` int(50) DEFAULT NULL,
`LEMBUR` int(50) DEFAULT NULL,
`TUNJ_KENDARAAN` int(50) DEFAULT NULL,
`BONUS_THR` int(50) DEFAULT NULL,
`RAPEL` int(50) DEFAULT NULL,
`TUNJ_KEHADIRAN` int(50) DEFAULT NULL,
`LUMPUSUM_PENDIDIKAN` int(50) DEFAULT NULL,
`LUMPUSUM_LEMBUR` int(50) DEFAULT NULL,
`INSENTIF` int(50) DEFAULT NULL
) ENGINE=MyISAM AUTO_INCREMENT=3 DEFAULT CHARSET=latin1 PACK_KEYS=0;

```

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	NC_PEG	bigint(16)			No		AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
2	NC_NIP	varchar(255)			No			Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
3	NAMA	varchar(255)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
4	NAMA_ALAS	varchar(255)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
5	TGL_LAHIR	date			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
6	TEMPAT_LAHIR	varchar(100)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
7	SEX	varchar(20)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
8	TELEPON	varchar(255)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
9	HP	varchar(255)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
10	KODE_POS	varchar(20)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
11	STATUS_NIKAH	varchar(20)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
12	JUWDAH_ANAK	int(2)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
13	NC_KTP	varchar(255)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
14	SIW	varchar(255)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
15	GOL_DARAH	varchar(100)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
16	ID_AGAMA	int(4)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
17	NC_KENDARAAN	varchar(20)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
18	NC_EFJS_KES	varchar(30)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
19	NC_JAMSOSTEK	varchar(30)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
20	TANGGAL_MASUK	date			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
21	TANGGAL_KELUAR	date			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
22	ALASAN_KELUAR	varchar(255)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
23	STATUS_KERJAAKTIF	int(2)			Yes	1		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
24	EMAIL	varchar(255)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's
25	NC_NPWP	varchar(255)			Yes	NULL		Change Drop Primary Unique Index Spatial Full text Distinct values Add to central column's

ID	Column Name	Data Type	Nullable	Default	Primary	Unique	Index	Spatial	Fulltext	Distinct values	Add to central columns
25	NO_NWP	varchar(255)	Yes	NULL							
26	JENIS_BUM	varchar(10)	Yes	NULL							
27	ID_BANK1	varchar(4)	Yes	NULL							
28	ID_CABANGBANK1	varchar(255)	Yes	NULL							
29	ATANAMA_BANK1	varchar(255)	Yes	NULL							
30	NOREK_BANK1	varchar(255)	Yes	NULL							
31	ALAMAT_IDENTITAS	varchar(255)	Yes	NULL							
32	RT_IDENTITAS	varchar(255)	Yes	NULL							
33	RW_IDENTITAS	varchar(255)	Yes	NULL							
34	KELURAHAN_IDENTITAS	varchar(255)	Yes	NULL							
35	KEGAMATAN_IDENTITAS	varchar(255)	Yes	NULL							
36	KOTA_IDENTITAS	varchar(255)	Yes	NULL							
37	KODE_POB_IDENTITAS	varchar(255)	Yes	NULL							
38	PROVINSI_IDENTITAS	varchar(255)	Yes	NULL							
39	NEGARA_IDENTITAS	varchar(255)	Yes	NULL							
40	NAMA_JURKANTUNG	varchar(255)	Yes	NULL							
41	NO_KK	varchar(255)	Yes	NULL							
42	ID_JABATAN	int(50)	Yes	NULL							
43	ID_DEPARTEMEN	int(50)	Yes	NULL							
44	ID_POKA	int(50)	Yes	NULL							
45	ID_LEVEL	int(50)	Yes	NULL							
45	ID_EMPLOYEE	int(50)	Yes	NULL							
47	TANGGAL_AWAL_KONTRAK	date	Yes	NULL							
48	TANGGAL_AKHIR_KONTRAK	date	Yes	NULL							
49	INVOICE_TYPE	varchar(255)	Yes	NULL							
50	UMP	int(50)	Yes	0							
51	BASIC_SALARY	int(50)	Yes	NULL							
52	MITRA_KERJA	int(50)	Yes	0							
53	TUNJ_JABATAN	int(50)	Yes	0							
54	TUNJ_GRADING	int(50)	Yes	0							
55	TUNJ_SPEBIAL	int(50)	Yes	0							
56	TUNJ_KEMAHJAN	int(50)	Yes	0							
57	TUNJ_LAIN	int(50)	Yes	0							
58	LEMBUR	int(50)	Yes	0							
59	TUNJ_KENDARAAN	int(50)	Yes	0							
60	BONUS_THR	int(50)	Yes	0							
61	RAPEL	int(50)	Yes	0							
62	TUNJ_KEMADIRAN	int(50)	Yes	0							
63	LUMPBUM_PENDIDIKAN	int(50)	Yes	0							
64	LUMPBUM_LEMBUR	int(50)	Yes	0							
65	INBENTIF	int(50)	Yes	0							
66	POT_BPU_KEB	int(10)	No	0							
67	POT_BPU_TK	int(10)	No	0							
68	POT_PENBUN	int(10)	No	0							
69	POT_ADM_BANK	int(10)	No	0							

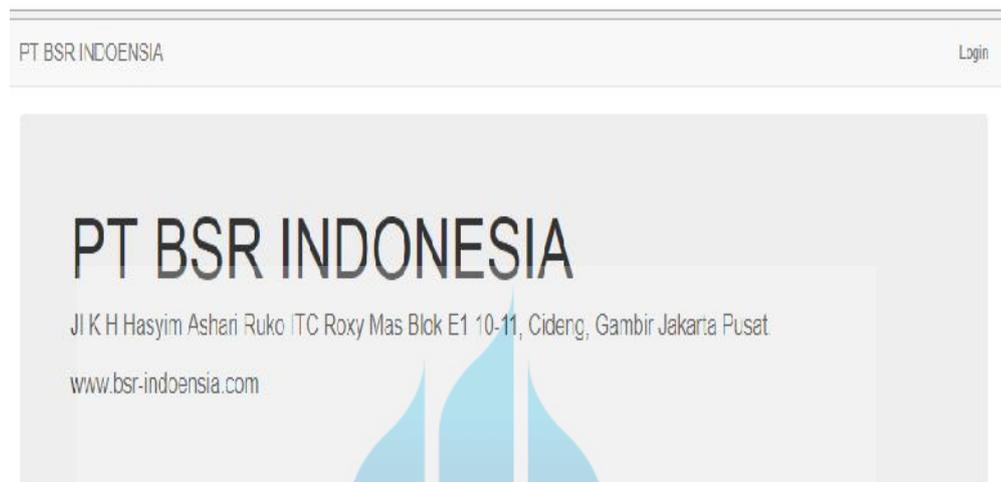
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MERCU BUANA

Gambar 4.20 Implementasi Tabel ftm_pegawai

4.3 Implementasi Program

4.3.1 Halaman Home

Pada saat aplikasi dijalankan, maka akan muncul halaman *home*. Halaman *home* menampilkan logo PT. BSR Indonesia.



Gambar 4.21 Halaman Home

4.3.2 Halaman Login

Pada saat klik halaman *login*, maka akan muncul form untuk *login* pengguna diwajibkan mengisi *username* dan *password*. Halaman *login* menampilkan logo PT. BSR Indonesia dan *textbox username* dan *password* yang berfungsi untuk pengecekan hak akses. Login ini digunakan oleh Administrator, HRD, *Payroll*, dan Keuangan.

Login Form	
Username	HRD
Passivord	*****
<input type="button" value="Login"/>	
Register User	

Gambar 4.22 Halaman Login

4.3.3 Halaman Registrasi User

Pada saat klik registrasi user, karyawan dapat melengkapi form registrasi user untuk mendapatkan *username* dan *password*.

PT BSR INDONESIA Login

Input Data User

Username

Name

E-mail

No HP

Password

Ulangi Password

Gambar 4.23 Halaman Registrasi User

4.3.4 Halaman Administrator

Jika login berhasil maka selanjutnya bagian administrator dapat mengakses sistem dan masuk ke halaman tambah dan aktivasi user.

PT BSR INDONESIA 11. administrator - Local

Administrator User

Aktivasi User

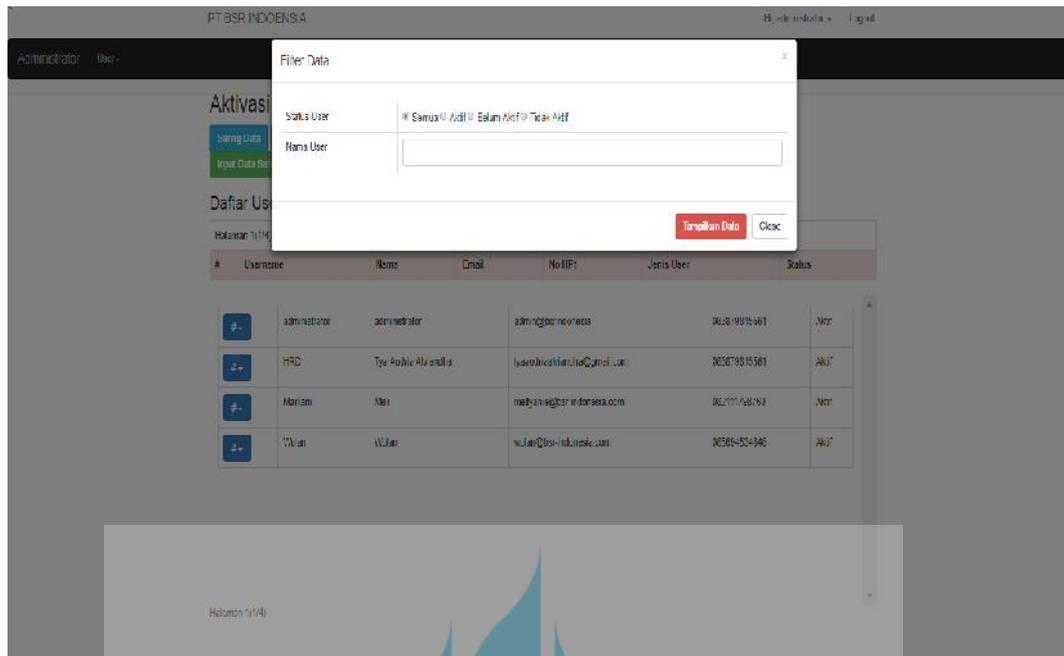
Daftar User

Halaman 1/1/1

#	Username	Name	Email	No HP	Jenis User	Status
<input type="button" value="x"/>	administrator	administrator	admin@bsrindonesia		083319612061	Aktif
<input type="button" value="x"/>	HRD	Tiw Andia Andia	tyandia@bsrindonesia.com		083379615561	Aktif
<input type="button" value="x"/>	Marketing	Mei	meiyanto@bsrindonesia.com		082111788750	Aktif
<input type="button" value="x"/>	Mulan	Mulan	mulan@bsrindonesia.com		08559453848	Aktif

Halaman 1/1/1

Gambar 4.24 Halaman Administrator



Gambar 4.25 Tampilan Saring Data



Gambar 4.26 Tampilan Input Data Baru

PT BSR INDONESIA Hi, administrator - Logout

Administrator User

Input Data User

Username	administrator
Nama	administrator
Email	admin@bsrindonesia
No HP	08370845584
Status User	# Aktif <input type="checkbox"/> Inaktif
Jenis User	# Administrator <input type="checkbox"/> HRD <input type="checkbox"/> Payroll <input type="checkbox"/> Kawangan

Gambar 4.27 Tampilan Input Aktivasi

4.3.5 Halaman HRD

Jika login berhasil maka selanjutnya bagian hrd dapat mengakses sistem dan masuk ke halaman data karyawan.



Gambar 4.28 Halaman HRD

4.3.6 Tampilan Pendaftaran Karyawan / Mitra Kerja

Selanjutnya hrd dapat input data karyawan di submenu input data karyawan.

The screenshot shows a web browser window with the URL 'PT ESR MEDISIA' and a user profile 'H. Ta. Sari Alimata'. The page title is 'HRD Data Karyawan'. The main content is a form titled 'Input Data Karyawan'. The form has three main sections: 'Data Personal', 'Data Pekerjaan', and 'Data Organisasi'. The 'Data Personal' section includes fields for NIK, No. CP, Nama Lengkap, Nama Panggilan, Tanggal Kelahiran (with a 'Pilih Tanggal' button), Jenis Kelamin (Male/Female), Agama (Buddhism, Christianity, Islam, Hinduism, Other), Status Kawan (Single, Married, Widowed, Divorced), and a large text area for Alamat. Below this are fields for RT/RW and Warga. The 'Data Pekerjaan' section has a 'Profesi' field. The 'Data Organisasi' section has fields for Kode Organisasi, Kode Pos, NPK, and No. SP. & TK. A 'Simpan' button is located next to the 'Tanggal Kelahiran' field. A large blue water logo watermark is centered over the form.

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Gambar 4.29 Tampilan Pendaftaran Karyawan / Mitra Kerja

Dimenu ini pula hrd dapat lihat karyawan dan edit pegawai.

PT ESR INDOENSIA Hi, Tya Audria Alvandha - Logout

HRD Data Karyawan

Edit Data Karyawan

Data Personalia | Alamat Identitas | Data Kontak | Data Bank, NPWP & BPJS | Tanggal DOB | Data Pekerjaan | Komponen Gaji Tetap

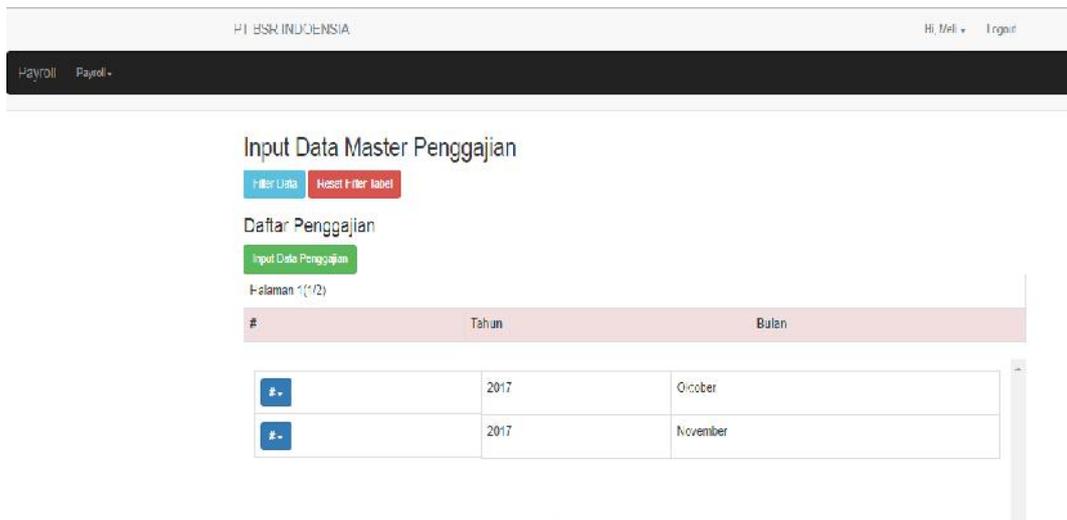
Putongan Gaji Tetap

No KTP	317306430E900013	
Nama Lengkap	VERA MELYANI USMAN	
Nama Panggilan	VERA	
Tempat / Tanggal Lahir	JAKARTA	08/06/1990
Jenis Kelamin	<input checked="" type="radio"/> Pria <input type="radio"/> Wanita	
Golongan Darah	▼	
Agama	ISLAM ▼	
Status Nikah	Belum Nikah ▼	
Nomor Kartu Keluarga		
Jumlah Anak	0	
Nama Ibu Kandung		

Gambar 4.32 Tampilan Edit Data Karyawan

4.3.8 Tampilan *Payroll*

Jika login berhasil maka selanjutnya bagian *Payroll* dapat mengakses sistem dan masuk ke halaman penggajian. Bagian *payroll* dapat memilih periode bulan yang akan diproses dan di input untuk periode penggajian.



Gambar 4.33 Tampilan Input Data Master Gajian



Gambar 4.34 Tampilan Filter Data

PT BSR INDONESIA Hi Mei Logout

Payroll Payroll

K020010415 - ADE FATMA OKTARI
 Staff Administrasi Umum

Total Bruto	0
Gross Salary	0
Total Potongan	0
Total Penetakaan	0

Proses Penggajian Oktober 2017

Finansien Dikel. Total	Tanggungan Total Total	Pengisian Gaji
Gaji Pokok	0	
Miluk Kerja	0	
Tunjangan Janskelan	0	
Tunjangan Gredling	0	
Tunjangan Spesial	0	
Tunjangan Keahlian	0	
Tunjangan Lain - Lain	0	

Gambar 4.35 Tampilan Proses Gaji

PT BSR INDONESIA Hi Mei Logout

Payroll Payroll

UNIVERSITAS MERCU BUANA

GAJI DETAIL Lihat Daftar Karyawan Oktober 2017

Print Data Reset Filter

Export Excel

Halaman 1 (1/1)

Company	Employee ID	Employee Name	Status	Job Title Name	Organization Name	Location	Employment Level	Employment Type	No ID (KTP)	NPWP
BSR INDONESIA	0034011216	NOFLISA SETIA KARNEL4	Belum Nikah	Staff Outbound Retention	Outbound Reminder & Retention 1	Jakarta	Officer Outsourcing	Cuts Kontrak	1302026512910001	

Halaman 1 (1/1)

Gambar 4.36 Tampilan Lihat Data Gaji

4.3.9 Tampilan Laporan Gaji Non Tunai

Jika login berhasil maka selanjutnya bagian keuangan dapat mengakses sistem dan masuk ke halaman keuangan. Bagian keuangan dapat memilih submenu laporan gaji non tunai, submenu laporan gaji tunai, dan submenu laporan tagihan invoice.

PT BSR INDOENSIA Hi, Wulan Logout

Keuangan Keuangan+

Input Data Master Penggajian

Filter Data Reset Filter Tabel

Daftar Penggajian

Input Data Penggajian

Halaman 1(1/2)

#	Tahun	Bulan
#	2017	Oktober
#	2017	November

Gambar 4.37 Tampilan Lihat Data Gaji

PT BSR INDOENSIA Hi, Wulan Logout

Keuangan Keuangan+

Daftar Gaji Non Tunai Oktober 2017

Filter Data Reset Filter

Export Excel

Halaman 1(1/1)

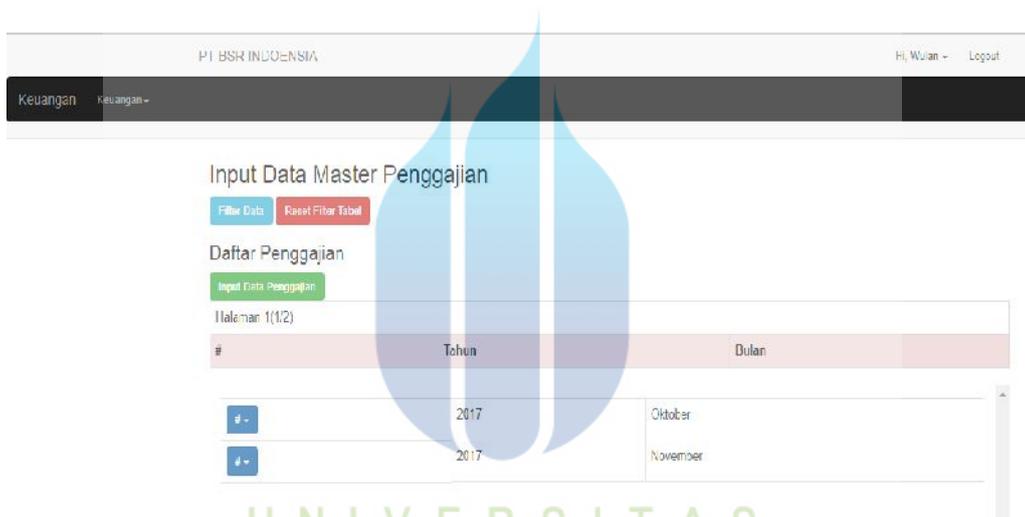
Bank	No Rekening	Nama	Jumlah
BCA	270-0375-606	NOFLISA SETIA KARNELA	3435600

Halaman 1(1/1)

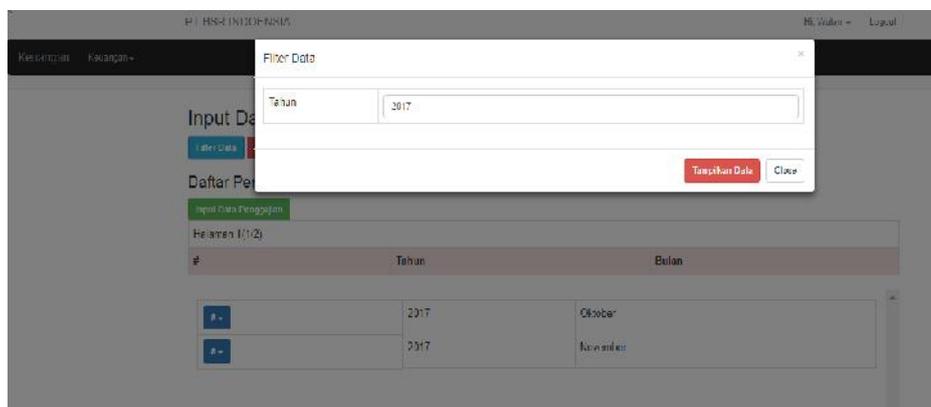
Gambar 4.38 Tampilan Daftar Gaji Non Tunai

	A	B	C	D	E	F
1	BANK	NO Rekening	Nama	Jumlah		
2	BCA	270-0375-806	NOFLISA SETIA KARNELA	3435500		
3						
4						
5						
6						
7						
8						
9						

Gambar 4.39 Tampilan Export Excel



Gambar 4.40 Tampilan Laporan Gaji Tunai



Gambar 4.41 Tampilan Filter Data Laporan Gaji Tunai



Gambar 4.42 Tampilan Laporan Gaji Tunai

	A	B	C	D	E	F
1	Bank	No Rekening	Nama	Jumlah		
2			ADE RATNA OKTARI	3413206		
3						
4						
5						
6						
7						
8						
9						

Gambar 4.43 Tampilan Export Exel

4.4.9 Verifikasi Pengujian

Pengujian perlu dilakukan untuk menguji sistem/aplikasi yang telah dibuat apakah sudah sesuai dengan rancangan awal atau tidak. Pengujian yang akan dilakukan yaitu menguji semua proses pada semua halaman yaitu halaman *Home/utama*, *Administrator*, *HRD*, *Payroll*, *Keuangan*.

4.5.9 Skenario Pengujian

Coba dilakukan setelah pembuatan perangkat lunak selesai dengan percobaan pada komputer tampilan pengguna. Dengan melakukan uji coba ini dapat dilakukan untuk mengetahui kemungkinan terjadinya kesalahan dan untuk memastikan fungsi-fungsi yang terdapat pada modul-modul aplikasi ini apakah sudah berjalan dengan baik.

Dalam proses pengujiannya metode yang dilakukan adalah *black box*. Metode ini dipilih karena pengetesan cukup mengetahui semua fungsi-fungsi yang ada dalam sistem berjalan tanpa ada kesalahan ada tidak memerlukan pengetesan secara detail/logis.

Tabel 4.1 Skenario dan Hasil Pengujian Black Box

No	Menu yang diuji	Bagian menu yang diuji	Status aplikasi	Skenario pengujian	Hasil yang diharapkan	Hasil Pengujian
1	Home	Menguji tampilan home	Tampilan halaman home sudah terbuka	Klik menu halaman login	Tampilan menu sesuai pilihan sudah terbuka	Benar, sesuai dengan yang diinginkan
2	User	Proses tambah dan aktivasi user	Halaman tambah dan aktivasi user sudah terbuka	Masukkan identitas data user, dan input data baru	Data akan disimpan bila form sudah terisi, jika belum lengkap maka data tidak berhasil disimpan	Benar, sesuai dengan yang diinginkan
3	Pendaftaran Karyawan	Pendaftaran Karyawan	Halaman pendaftaran karyawan sudah terbuka	Klik pendaftaran karyawan	Menyimpan ke <i>database</i>	Benar, sesuai dengan yang diinginkan
4	Ubah Data Karyawan	Ubah Data Karyawan	Halaman ubah data karyawan sudah terbuka	Klik lihat karyawan dan edit pegawai	Dapat menampilkan lihat karyawan dan edit pegawai	Benar, sesuai dengan yang diinginkan
5	Penggajian	Penggajian	Halaman penggajian sudah terbuka	Klik proses dan lihat data	Dapat menginput penggajian dan menghitung	Benar, sesuai dengan yang diinginkan

					hasil penggajian, hasil penggajian dapat di export ke exel.	
6	Laporan gaji non tunai	Laporan gaji non tunai	Halaman laporan gaji non tunai	Klik lihat data gaji non tunai	Menampilkan hasil perhitungan gaji yang akan di transfer ke karyawan dan di export dalam bentuk exel	Benar, sesuai dengan yang diinginkan
7	Laporan gaji tunai	Laporan gaji tunai	Halaman laporan gaji tunai	Klik lihat data gaji tunai	Menampilkan hasil perhitungan gaji tunai yang akan di transfer ke karyawan dan di export dalam bentuk exel	Benar, sesuai dengan yang diinginkan
8	Laporan tagihan invoice	Laporan tagihan invoice	Halaman laporan tagihan invoice	Klik laporan tagihan invoice	Menampilkan hasil perhitungan laporan tagihan invoice dan di export ke exel	Benar, sesuai dengan yang diinginkan

4.6.9 Analisa Hasil Pengujian

Dari seluruh hasil pengujian dapat di Analisa bahwa :

1. Aplikasi dapat terkoneksi ke basis data, sehingga proses login dapat dilakukan
2. Proses pengelolaan user dan input data user berhasil dilakukan
3. Proses pengelolaan data *create* pada data master data karyawan berhasil dilakukan
4. Proses pengelolaan penggajian berhasil dilakukan
5. Proses pengelolaan laporan gaji non tunai, laporan gaji tunai, dan laporan tagihan invoice berhasil dilakukan.

