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4.1.3. Activity Diagram
1. Activity Diagram Manage Karyawan

Gambar IV.2 Activity Diagram Manage Karyawan
2. Activity Diagram Hari libur

Gambar IV.3 Activity Diagram Hari libur

3. Activity Diagram Cuti Karyawan

Gambar IV.4 Activity Diagram Manage Cuti Karyawan

4. Activity Diagram Presensi Karyawan

Gambar IV.5 Activity Diagram Manage Presensi Karyawan

5. Activity Diagram Slip Gaji

Gambar IV.6 Activity Diagram Slip Gaji

4.2. Desain
4.2.1. Database

1. Entity Relationship Diagram (ERD)

Gambar IV.7 ERD

2. Logical Record Structure (LRS)

Gambar IV.8 LRS

3. Spesifikasi File

a. Spesifikasi File Tabel Admin

Nama Database : payroll_db
Nama File : User
Akronim : user
Fungsi : menyimpan data user yang dapat login ke app
File Type : File Master
File Access : Random
File Organization : Index Sequential
File Media : Hard disk
Panjang Record : 902
Primary Key : id
Software : MySQL
Tabel IV 6 File user

No.	Elemen Data	Nama Field	Type	Size	Keterangan
1	ID User	id	Varchar	36	Primary key
2	Username	username	Varchar	100	Unique
3	Full Name	fullname	Varchar	255	
4	Password	password	Varchar	255	
5	Role	role	Varchar	255	
6	Active	active	Bit	1	

b. Spesifikasi File Tabel Flyway Schema History

Nama Database : payroll_db
Nama File : MigrationInfo
Akronim : flyway_schema_history
Fungsi : menyimpan data schema migration
File Type : File Master
File Access : Random
File Organization : Index Sequential
File Media : Hard disk
Panjang Record : 1423
Primary Key : installed_rank
Software : MySQL
Tabel IV 7 File flyway schema history

No.	Elemen Data	Nama Field	Type	Size	Keterangan
1	InstalledRank	installed_rank	int	11	Primary key
2	Version	version	Varchar	50	
3	Description	description	Varchar	200	
4	Type	type	Varchar	20	
5	Script	script	Varchar	1000	
6	Checksum	checksum	Int	11	
7	InstalledBy	installed_by	Varchar	100	
8	InstalledOn	installed_on	Timestamp	19	
9	ExecutionTime	execution_time	Int	11	
10	Success	success	Tinyint	1	

c. Spesifikasi File Tabel Hari Libur
Nama Database : payroll_db
Nama File : HariLibur
Akronim : hari_libur
Fungsi : menyimpan data hari libur
File Type : File Master
File Access : Random
File Organization : Index Sequential
File Media : Hard disk
Panjang Record : 311
Primary Key : id
Software : MySQL
Tabel IV 8 File Hari Libur

No.	Elemen Data	Nama Field	Type	Size	Keterangan
1	Id	id	varchar	36	Primary key
2	StartDate	start_date	Date	10	
3	EndDate	end_date	Date	10	
4	Nama	nama	Varchar	255	

d. Spesifikasi File Tabel Karyawan
Nama Database : payroll_db
Nama File : Karyawan
Akronim : karaywan
Fungsi : menyimpan data karyawan
File Type : File Master
File Access : Random
File Organization : Index Sequential
File Media : Hard disk
Panjang Record : 1374
Primary Key : id
Software : MySQL
Tabel IV 9 File Karyawan

No.	Elemen Data	Nama Field	Type	Size	Keterangan
1	Id	id	varchar	36	Primary key
2	Email	email	Varchar	255	unique
3	Finger Print Id	finger_print_id	Varchar	255	unique
4	Full Name	fullname	Varchar	255	
5	Gaji Pokok	gaji_pokok	Decimal	21	
6	Phone	phone	Varchar	255	unique
7	Address	address	Varchar	255	
8	Uang Makan	uang_makan	Decimal	21	
9	Uang Transport	uang_transport	Decimal	21	

e. Spesifikasi File Tabel Cuti Karyawan
Nama Database : payroll_db
Nama File : Cuti Karyawan
Akronim : cuti_karaywan
Fungsi : menyimpan data cuti karyawan
File Type : File Transaction
File Access : Random
File Organization : Index Sequential
File Media : Hard disk
Panjang Record : 556

Primary Key : id
Software : MySQL
Tabel IV 10 File Cuti Karyawan
No. Elemen Data Nama Field Type Size Keterangan
1 Id id varchar 36 Primary key
2 Tanggal Cuti tanggal_cuti date 10
3 Karyawan id_karyawan Varchar 255 Foreign key
4 Keterangan Cuti keterangan_cuti Varchar 255

f. Spesifikasi File Tabel Cuti Karyawan
Nama Database : payroll_db
Nama File : Presensi
Akronim : presensi
Fungsi : menyimpan data presensi karyawan
File Type : File Transaction
File Access : Random
File Organization : Index Sequential
File Media : Hard disk
Panjang Record : 311
Primary Key : id
Software : MySQL
Tabel IV 11 File Presensi
No. Elemen Data Nama Field Type Size Keterangan
1 Id id varchar 36 Primary key
2 Tanggal tanggal date 10 Unique constraint
3 Karyawan id_karyawan Time 9
4 Waktu Absen waktu_absen Varchar 255
5 Izin izin Bit 1

g. Spesifikasi File Tabel Slip Gaji
Nama Database : payroll_db
Nama File : SlipGaji
Akronim : slip_gaji
Fungsi : menyimpan data slip gaji
File Type : File Transaction
File Access : Random
File Organization : Index Sequential
File Media : Hard disk
Panjang Record : 423
Primary Key : id
Software : MySQL
Tabel IV 12 File Slip Gaji
No. Elemen Data Nama Field Type Size Keterangan
1 Id id varchar 36 Primary key
2 Bulan bulan Int 11
3 Tahun tahun int 11
4 Denda Telat denda_telat Decimal 21
5 Denda Absent denda_absent Decimal 21
6 Total Denda total_denda Decimal 21
7 Total Gaji total_gaji Decimal 21
8 Created Time created_time Datetime 26
9 Karyawan id_karyawan Varchar 255

4.2.2. Software Architecture

1. Class Diagram

Gambar IV.9 Class Diagram

2. Sequence Diagram

Gambar IV.10 Sequence Diagram

3. Deployment Diagram

Gambar IV.11 Deployment Diagram

4.2.3. User Interface
1. Tampilan Halaman Login

Gambar IV.12 Halaman Login

2. Tampilan Halaman Home

Gambar IV.13 Halaman Home

3. Tampilan Halaman Karyawan

Gambar IV.14 Halaman Karyawan

4. Tampilan Halaman Hari Libur

Gambar IV.15 Halaman Hari Libur

5. Tampilan Halaman Cuti Karyawan

Gambar IV.16 Halaman Cuti Karyawan

6. Tampilan Halaman Presensi

Gambar IV.17 Halaman Presensi

7. Tampilan Halaman Slip Gaji

Gambar IV.18 Halaman Slip Gaji

Gambar IV.19 Slip Gaji Detail

Gambar IV.20 Slip Gaji Download

4.3. Code Generation
Berikut code generation untuk semua fitur :
1. Nama Fitur : Login
Lampiran : D-1
2. Nama Fitur : Home
Lampiran : D-2
3. Nama Fitur : Karyawan

Lampiran : D-3
4. Nama Fitur : Hari Libur
Lampiran : D-4
5. Nama Fitur : Cuti Karyawan
Lampiran : D-5
6. Nama Fitur : Presensi
Lampiran : D-6
7. Nama Fitur : Slip Gaji
Lampiran : D-7

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