

BAB IV

RANCANGAN SISTEM DAN PROGRAM USULAN

4.1. Analisa Kebutuhan *Software*

A. Tahapan Analisis

Perancangan Sistem Informasi permintaan rekrutmen karyawan pada PT.Prima Food International berbasis web ini diharapkan dapat mengintegrasikan data permintaan karyawan keseluruhan divisi dengan pelayanan yang ditawarkan seperti : data permintaan karyawan, proses permintaan masing divisi sudah sampai mana, serta pembuatan laporan sehingga dalam hal pemrosesan datanya menjadi lebih efektif dan efisien. Selain itu sistem ini juga diharapkan dapat memberikan banyak dampak kemudahan bagi penggunaannya seperti Manajer OPS (*operasional*) dapat melihat data proses rekrutmen jadi lebih mudah tanpa harus meminta kepada *manager HRD (Human Resource Departemen* secara manual, begitu pula *manager HRD (Human Resource Departemen)* tidak perlu menunggu *Manajer OPS (operasional)* memberikan data permintaan karyawan yang dibutuhkan, karena semua sistem serta datanya sudah terintegrasi didalam sistem ini, walaupun dalam pelaksanaannya dokumen-dokumen fisik akan tetap diperlukan salah satunya sebagai arsip.

Berikut ini spesifikasi kebutuhan (*system requirement*) :

Halaman Manager OPS :

A.1. *Manager OPS (operasional)* Bagian dapat melakukan *login Manager OPS (operasional)*.

A.2. *Manager OPS (operasional)* dapat Mengisi form permintaan karyawan.

A.3. *Manager OPS (operasional)* dapat melihat sampai mana proses permintaan karyawan dilakukan (pada tampilan form list data request employee).

A.4. *Manager OPS (operasional)* dapat melihat laporan pengajuan karyawan

A.5. *Manager OPS (operasional)* dapat mencetak laporan permintaan karyawan sebagai arsip

Halaman *manager HRD* :

B.1. *manager HRD* dapat melakukan *login manager HRD*.

B.2. *manager HRD* dapat melihat data permintaan pengajuan karyawan baru.

B.3. *manager HRD* dapat menerima atau menolak permintaan pengajuan karyawan yang diminta oleh *manager OPS (operasional)*, jika ditolak *manager HRD* harus memberikan alasannya di kolom *Notes for declining*.

B.4. *manager HRD* dapat melihat laporan pengajuan karyawan.

B.5. *manager HRD* dapat mencetak laporan permintaan sebagai arsip.

Halaman *HRD Staff* :

C.1. *HRD Staff* dapat melakukan *login HRD Staff*.

C.2. *HRD Staff* dapat melihat data permintaan karyawan dari *manager HRD* yang telah diterima dan ditolak, jika diterima *HRD Staff* dalam melanjutkan ke tahap proses dengan menekan tombol Proses..

C.3. *HRD Staff* dapat melihat laporan pengajuan karyawan.

C.4. *HRD Staff* dapat mencetak laporan permintaan sebagai arsip.

Halaman *admin*:

- D.1. *admin* dapat melakukan login *admin*.
- D.2. *admin* dapat melihat proses data pengajuan rekrutmen karyawan.
- D.3. *admin* dapat menambahkan / menghapus pengguna yang dapat mengakses web tersebut pada kolom *Master User*.
- D.4. *admin* dapat menambahkan /menghapus nama toko yang sudah tidak aktif lagi pada kolom *Master Toko*.
- D.5. *admin* dapat menambahkan/menghapus divisi yang sudah tidak dibutuhkan lagi,pada kolom *Master Divisi*.
- D.6. *admin* dapat menambahkan /menghapus jabatan yang sudah tidak dibutuhkan lagi pada kolom *Master Jabatan*.
- D.7. *admin* dapat mencetak laporan permintaan karyawan,sebagai arsip perusahaan.

B. Use Case Diagram

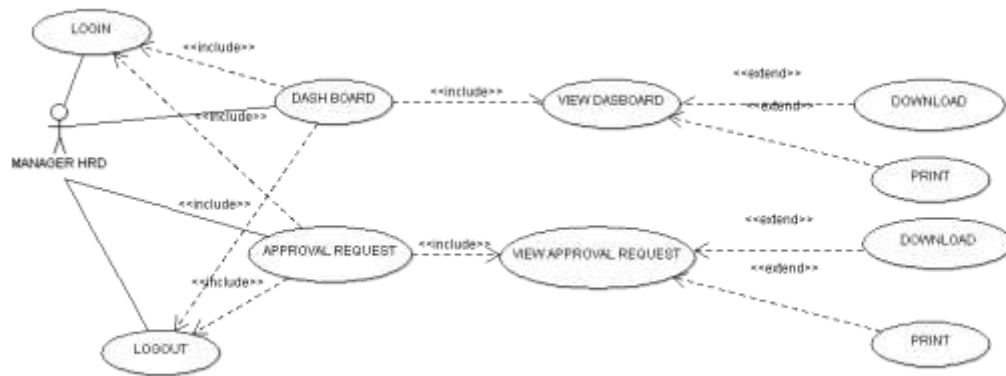
Use case diagram digunakan untuk mendeskripsikan apa yang seharusnya dilakukan oleh sistem.

Didalam *use case diagram*, *website* ini memiliki 3 aktor yaitu :

1. *manager OPS* : *manager OPS* dapat melihat semua informasi yang terjadi pada permintaan karyawan seperti, permintaan yang disetujui dan permintaan yang ditolak disertai dengan laporan pengajuannya.
2. *manager HRD* : *manager HRD* dapat melihat secara keseluruhan permintaan yang dibutuhkan oleh *manager OPS* dan dapat menerima permintaan karyawan yang diajukan atau menolak permintaannya disertai dengan alasannya.

<i>Main Flow / Basic Path</i>	1. Manager OPS melihat informasi tentang proses permintaan karyawan. 2. Manager OPS melakukan pencetakan laporan.
<i>Invariant</i>	-

2. Use Case Diagram Halaman manager HRD



Gambar IV.2

Use Case Diagram Halaman manager HRD

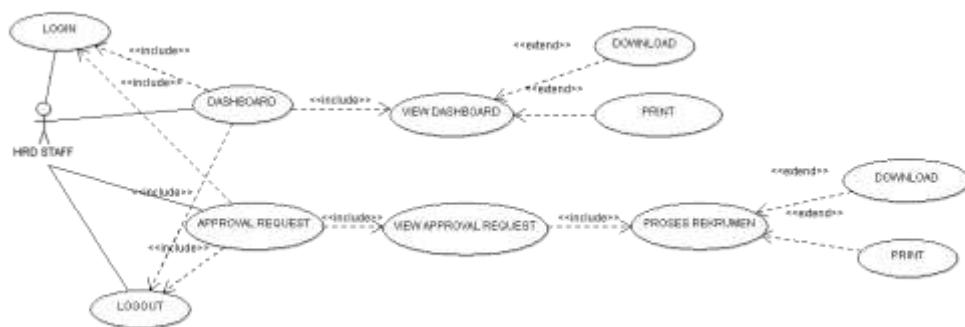
Tabel IV.2

Deskripsi Use Case Diagram Halaman manager HRD

<i>Use Case Name</i>	<i>Halaman manager HRD</i>
<i>Requirement</i>	B1-B5
<i>Goal</i>	Manager HRD dapat melihat informasi tentang data permintaan karyawan yang diminta oleh manager OPS dan mencetak laporan permintaan karyawan.
<i>Pre-condition</i>	Manager HRD telah login.
<i>Post-condition</i>	Manager HRD melakukan proses penerimaan permintaan karyawan dari manager OPS.

<i>Failed end condition</i>	<i>Manager HRD</i> membatalkan/menolak permintaan data karyawan dan pencetakan laporan lalu <i>LogOut</i> .
<i>Primary Actors</i>	<i>Manager HRD</i>
<i>Main Flow / Basic Path</i>	1. <i>Manager HRD</i> melihat informasi permintaan karyawan. 2. <i>Manager HRD</i> memproses permintaan karyawan. 3. <i>manager HRD</i> melakukan pencetakan laporan.
<i>Invariant</i>	-

3. Use Case Diagram Halaman HRD Staff



Gambar IV.3

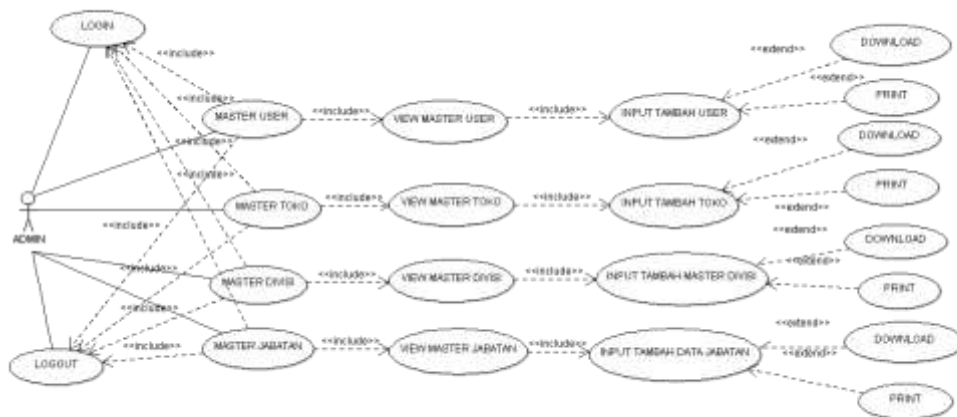
Use Case Diagram Halaman HRD Staff

Tabel IV.3

Deskripsi Use Case Diagram Halaman HRD Staff

<i>Use Case Name</i>	Halaman HRD Staff
<i>Requirement</i>	C1-C4
<i>Goal</i>	<i>HRD Staff</i> dapat melihat informasi tentang data permintaan karyawan.
<i>Pre-condition</i>	<i>HRD Staff</i> telah login.
<i>Post-condition</i>	<i>HRD Staff</i> melakukan proses permintaan karyawan.
<i>Failed end condition</i>	<i>HRD Staff</i> membatalkan/tidak memproses permintaan karyawan jika diperintahkan oleh <i>manager HRD</i> dan <i>LogOut</i> .
<i>Primary Actors</i>	<i>HRD Staff</i>
<i>Main Flow / Basic Path</i>	1. <i>HRD Staff</i> melihat data permintaan karyawan baru. 2. <i>HRD Staff</i> melakukan proses data.
<i>Invariant</i>	-

1. Use Case Diagram Halaman Admin



Gambar IV.4

Use Case Diagram Halaman admin

Tabel IV.4

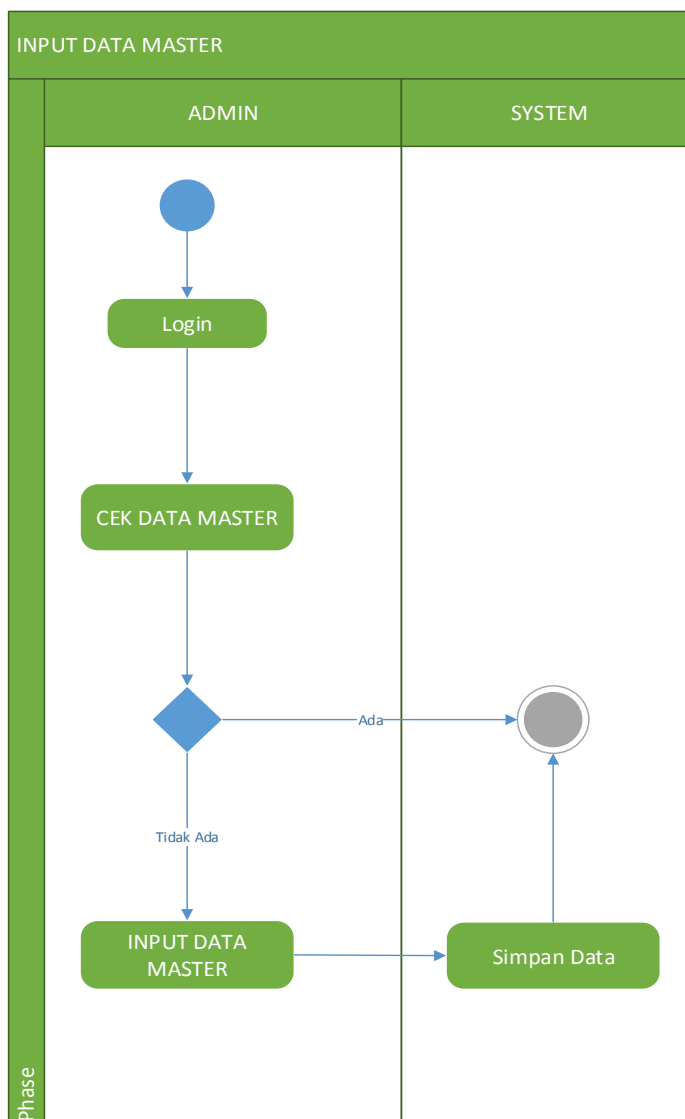
Deskripsi Use Case Diagram Halaman Admin

<i>Use Case Name</i>	Halaman admin
<i>Requirement</i>	D1-D6
<i>Goal</i>	Admin dapat melihat informasi tentang data permintaan karyawan, dapat menambahkan data user, divisi, toko, dan jabatan.
<i>Pre-condition</i>	Admin telah login.
<i>Post-condition</i>	admin melakukan proses penambahan/penghapusan data user, divisi, toko, dan jabatan.
<i>Failed end condition</i>	admin membatalkan/tidak memproses penambahan data user, divisi, toko, dan jabatan jika diperintahkan oleh manager HRD dan LogOut.
<i>Primary Actors</i>	Admin

<i>Main Flow / Basic Path</i>	1. <i>admin</i> melihat data permintaan karyawan baru. 2. <i>admin</i> melakukan penambahan data user,divisi,toko,dan jabatan.
<i>Invariant</i>	-

C. Activity Diagram

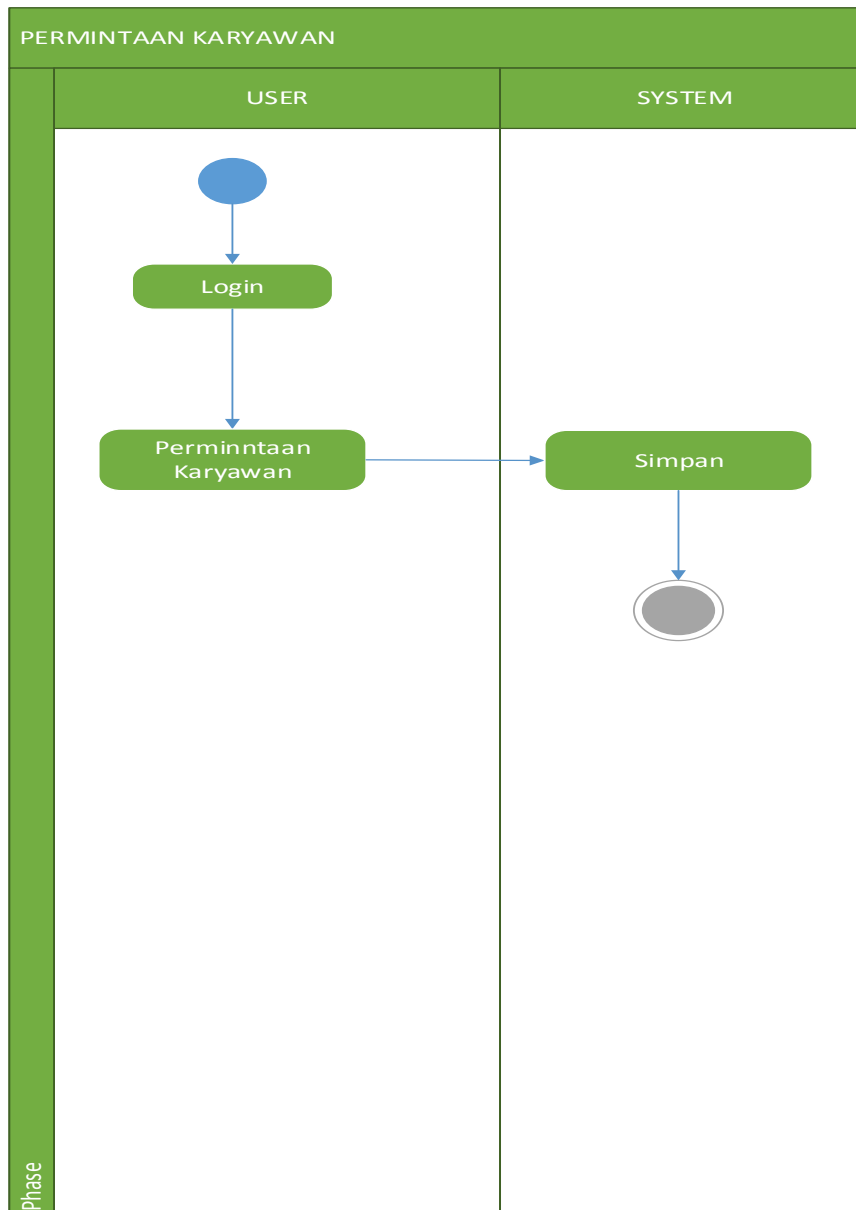
1. Activity Diagram Admin



Gambar IV.5

Activity Diagram Admin

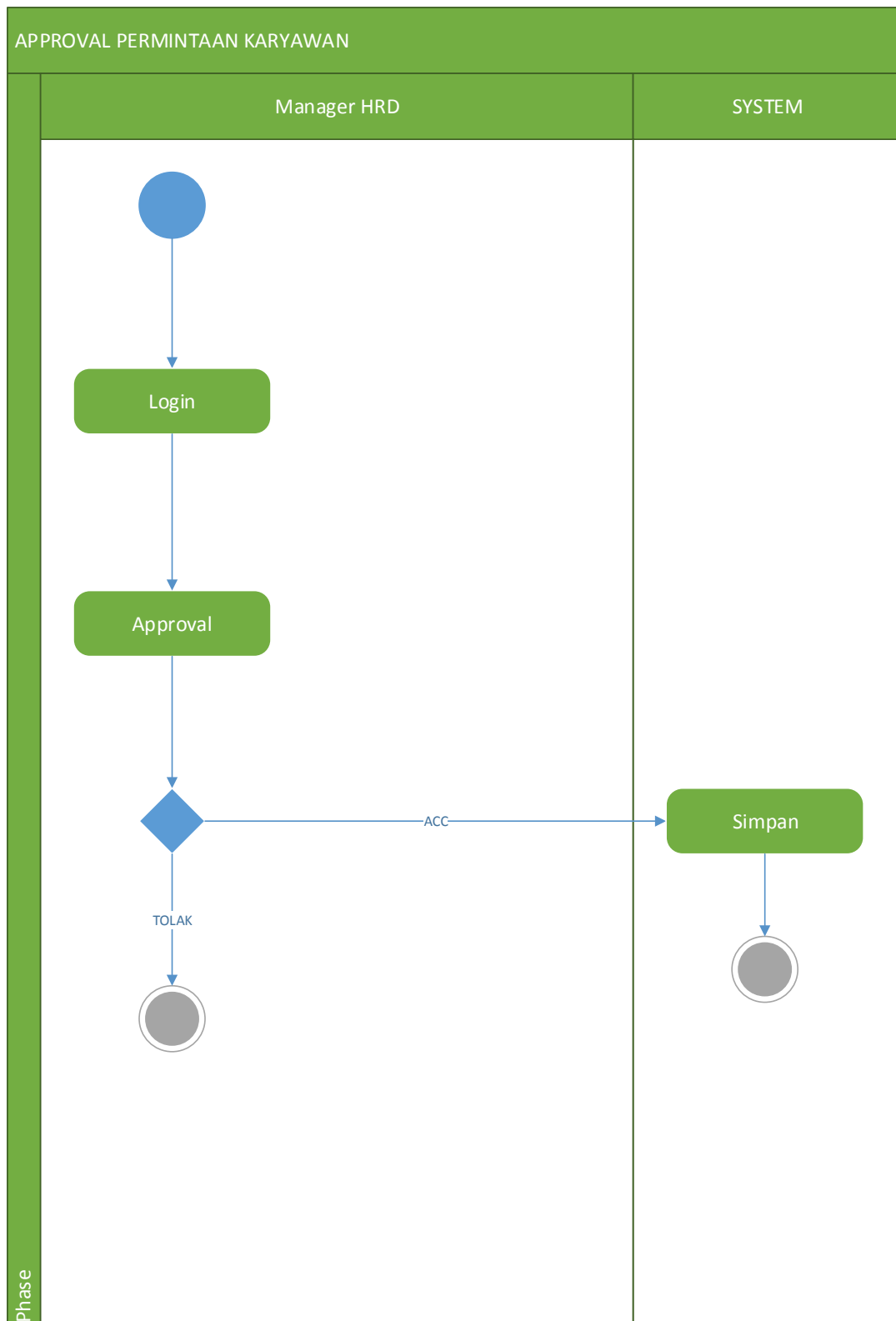
3. Activity Diagram Prosedur Permintaan Karyawan



Gambar IV.6

Activity Diagram Prosedur Permintaan Karyawan

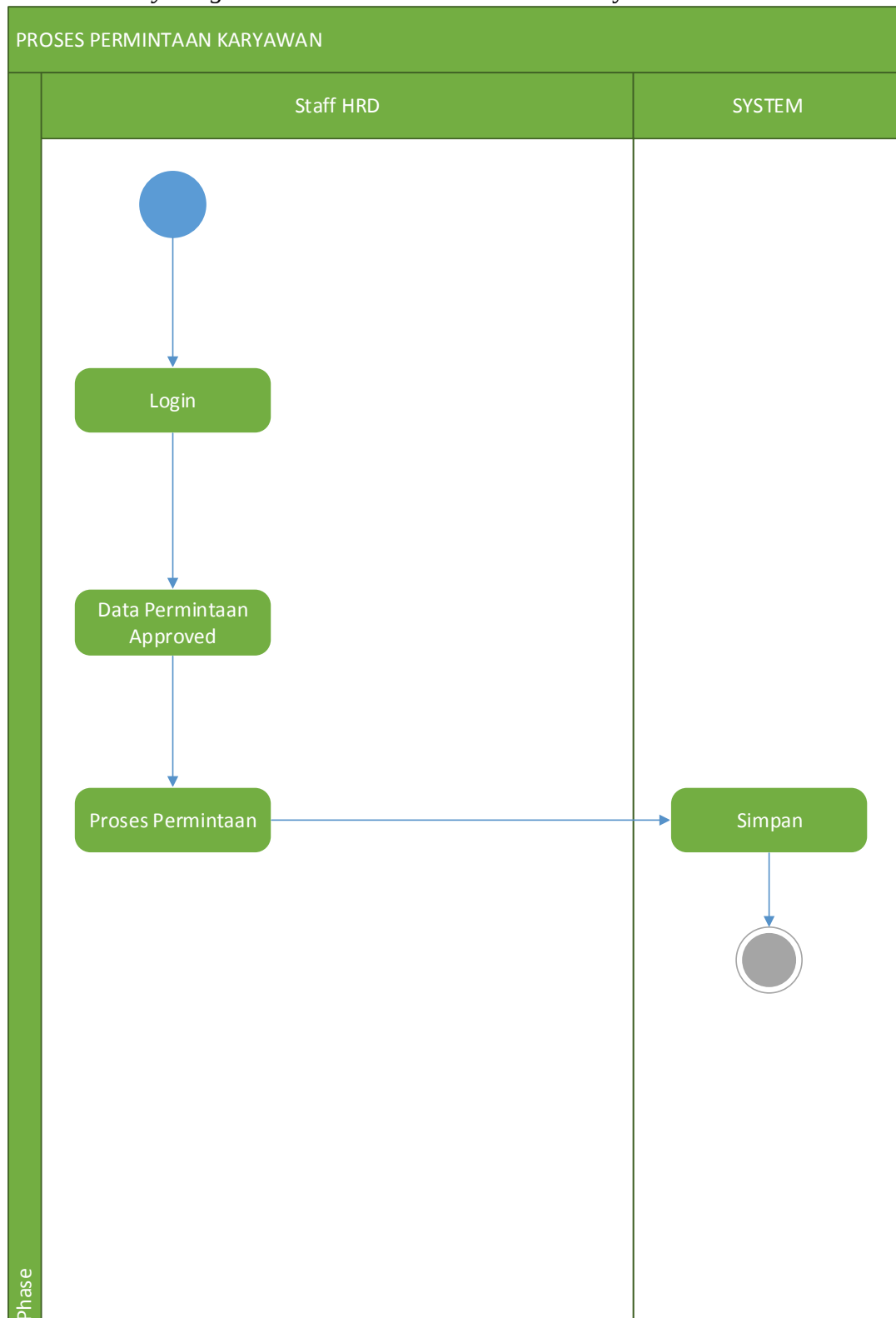
4. Activity Diagram Prosedur Aproval Permintaan Karyawan



Gambar IV.7

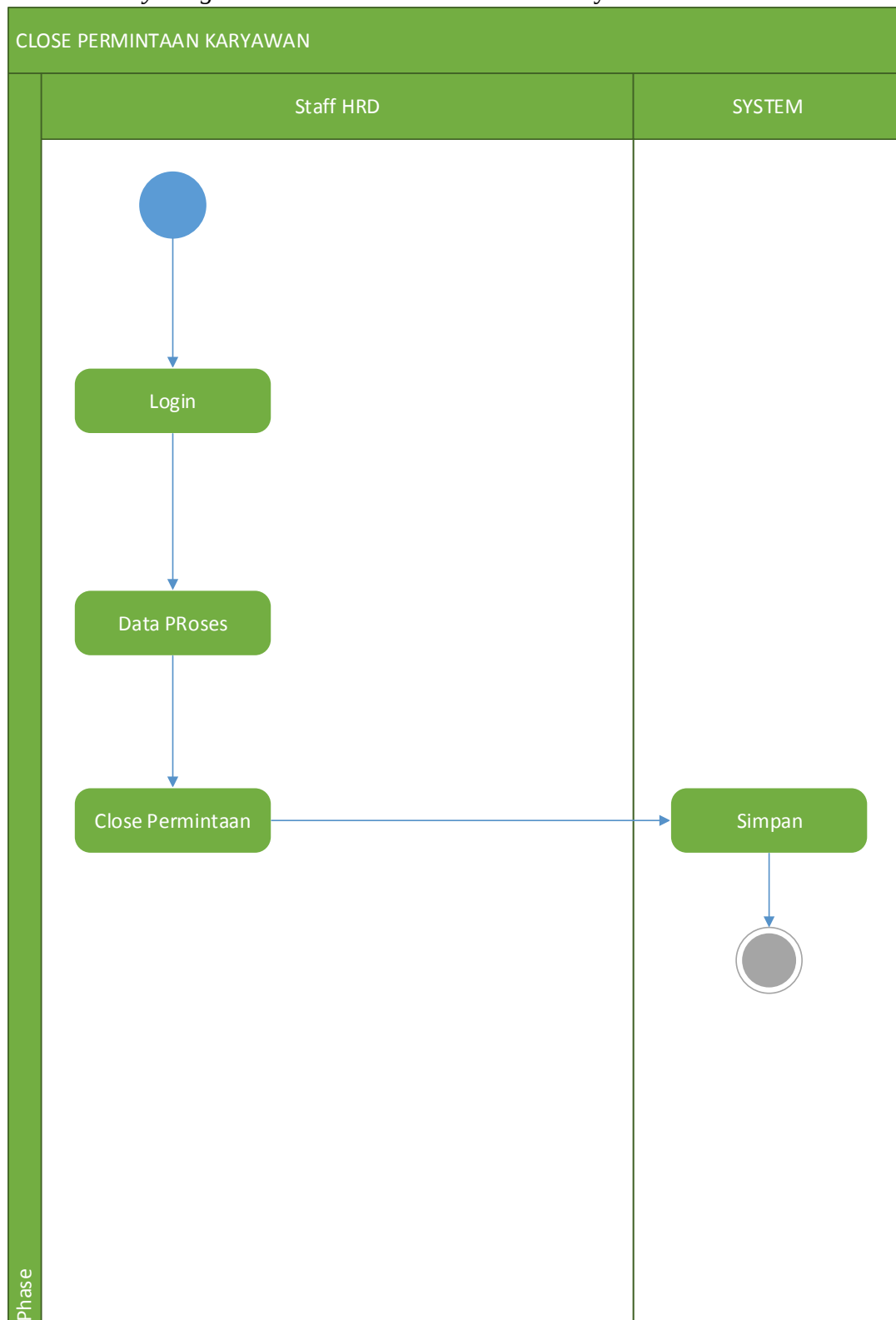
Activity Diagram Prosedur Aproval Permintaan Karyawan

5. Activity Diagram Prosedur Proses Permintaan Karyawan



Gambar IV.8

Activity Diagram Prosedur Proses Permintaan Karyawan

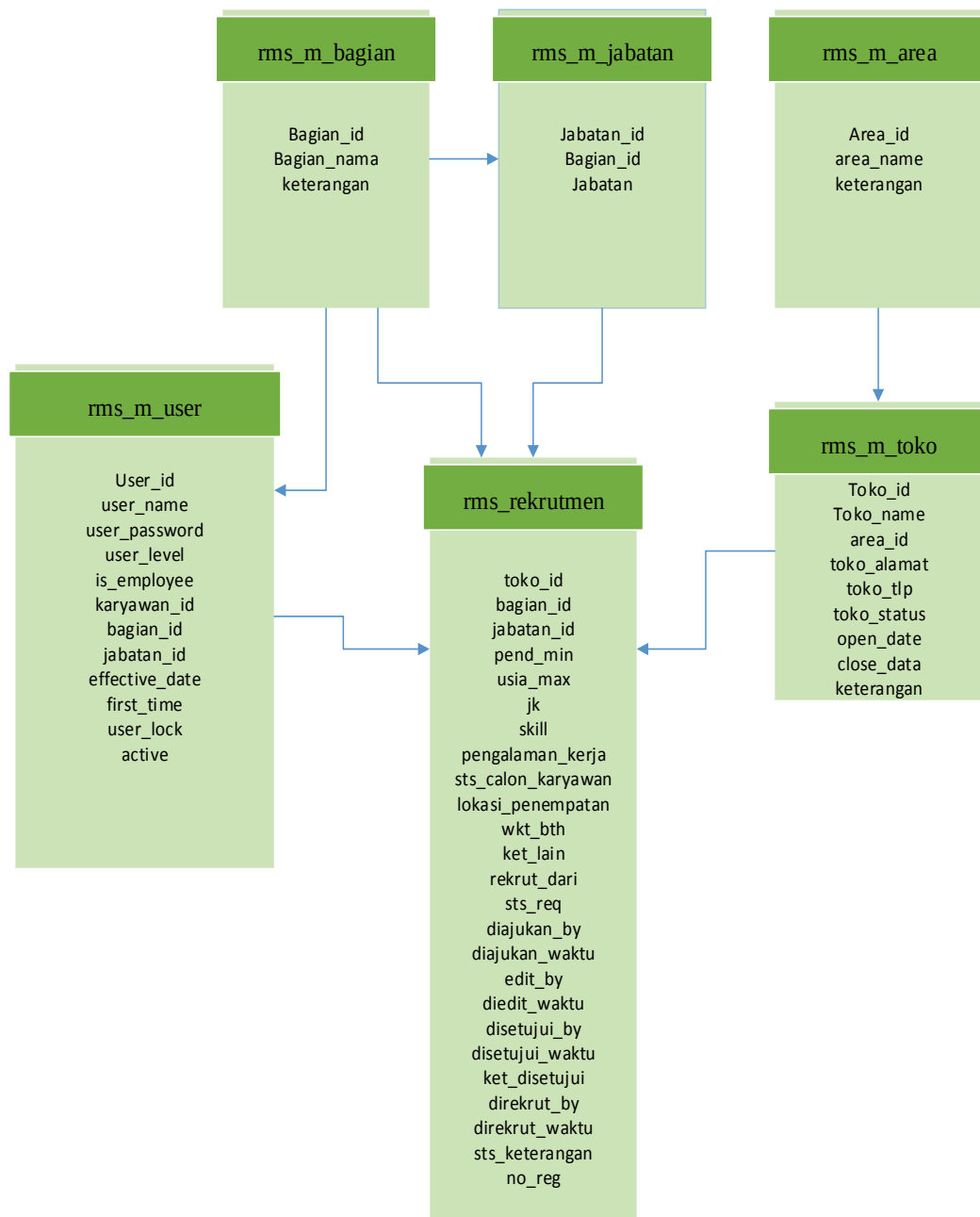
1. *Activity Diagram* Prosedur Close Permintaan Karyawan

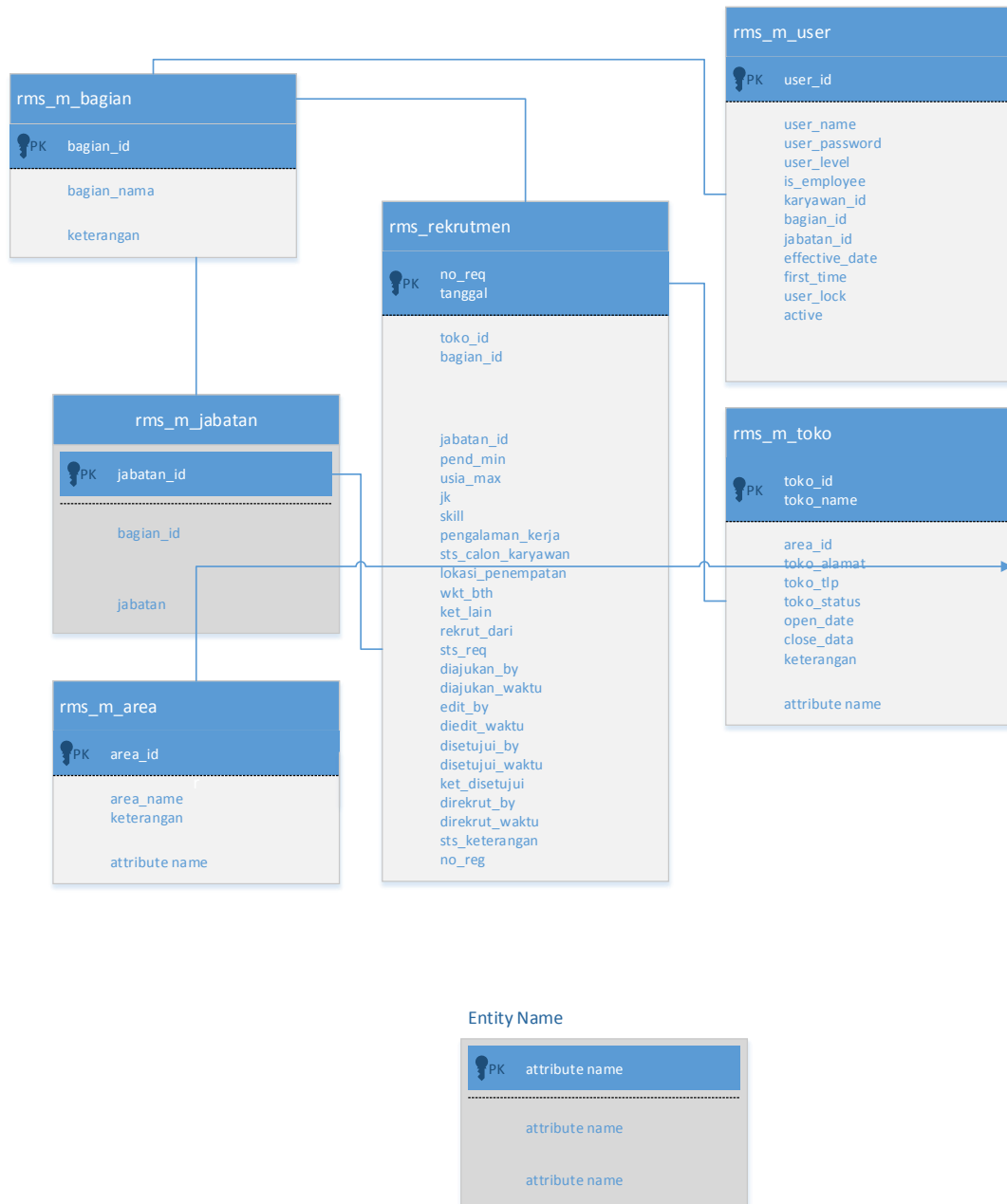
Gambar IV.9



2. Logical Record Structure

Logical Record Structure dari *Prima Food Intenational* ini adalah:





Gambar IV.11

Logical Record Structure**3. Spesifikasi File****a. Spesifikasi File Tabel rms_m_area**

Nama Database : rms

Nama Tabel : rms_m_area

Akronim : rms_m_area.myd
 Tipe File : File Master
 Akses File : Random
 Panjang Record : 14 byte
 Kunci Field : area_id

Tabel IV.5

Spesifikasi File Tabel rms_m_area

Elemen Data	Field Name	Type	Length	Extra	Keterangan
area_id	area_id	Varchar	11		Primary key
area_name	area_name	Varchar	50		
keterangan	keterangan	Varchar	255		

b. Spesifikasi File Tabel rms_m_bagian

Nama Database : rms
 Nama Tabel : rms_m_bagian
 Akronim : rms_m_bagian.myd
 Tipe File : File Master
 Akses File : Random
 Record Size : 109 byte
 Field Key : bagian_id

Tabel IV.6**Spesifikasi File Tabel rms_m_bagian**

No	Elemen Data	Field Name	Type	Length	Keterangan
1	bagian_id	<i>bagian_id</i>	<i>Varchar</i>	3	<i>Primary key</i>
2	bagian_nama	<i>Bagian_nama</i>	<i>Varchar</i>	20	
3	keterangan	<i>keterangan</i>	<i>Varchar</i>	255	

c. Spesifikasi File Tabel rms_m_jabatan

Nama Database : rms
 Nama Tabel : rms_m_jabatan
 Akronim : rms_m_jabatan.myd
 Tipe File : *File Master*
 Akses File : *Random*
 Record Size : 210 byte
 Kunci Field : *bagian_id*

Tabel IV.7**Spesifikasi File Tabel rms_m_jabatan**

No	Elemen Data	Field Name	Type	Length	Keterangan
1	bagian_id	<i>Bagian_id</i>	<i>char</i>	3	<i>Primary key</i>
2	Jabatan_id	<i>jabatan_id</i>	<i>integer</i>	3	<i>Foreign key</i>
3	jabatan	<i>Jabatan</i>	<i>varchar</i>	50	

d. Spesifikasi File Tabel rms_m_toko

Nama Database : rms
 Nama Tabel : rms_m_toko
 Akronim : rms_m_toko.myd
 Tipe File : *File Master*
 Akses File : *Random*
 Record Size : 134 byte
 Kunci Field : *toko_id*

Tabel IV.8

Spesifikasi File Tabel rms_m_toko

No	Elemen Data	Field Name	Type	Length	Keterangan
1	Toko_id	<i>Took_id</i>	<i>Varchar</i>	10	<i>Primary key</i>
2	Toko_name	<i>Toko_name</i>	<i>Varchar</i>	20	
3	Area_id	<i>Area_id</i>	<i>Integer</i>	11	
4	<i>Toko_name</i>	<i>Toko_name</i>	<i>varchar</i>	255	
5	<i>Area_id</i>	<i>Area_id</i>	<i>integer</i>	11	
6	<i>Toko_alamat</i>	<i>Toko_alamat</i>	<i>varchar</i>	255	
7	<i>Toko_tlp</i>	<i>Toko_tlp</i>	<i>varchar</i>	15	
8	<i>Toko_status</i>	<i>Toko_status</i>	<i>enum</i>	'active', 'nonactive'	
9	<i>Open_date</i>	<i>Open_date</i>	<i>date</i>		
10	<i>Close_date</i>	<i>Close_date</i>			
11	<i>keterangan</i>	<i>keterangan</i>	<i>varchar</i>	255	

e. Spesifikasi *File* Tabel rms_m_user

Nama Database : rms
 Nama Tabel : rms_m_user
 Akronim : rms_m_user.myd
 Tipe *File* : *File Master*
 Akses *File* : *Random*
 Record Size : 129 byte
 Kunci Field : *user_id*

Tabel IV.9**Spesifikasi *File* Tabel rms_m_user**

No	Elemen Data	<i>Field Name</i>	<i>Type</i>	<i>Length</i>	Keterangan
1	User_id	<i>User_id</i>	<i>Integer</i>	11	<i>Primary key</i>
2	User_name	<i>User_name</i>	<i>varchar</i>	50	
3	User_password	<i>User_password</i>	<i>Varchar</i>	255	
4	User_level	<i>User_level</i>	<i>enum</i>	'user', 'admin'	
5	Is_employee	<i>Is_employee</i>	<i>enum</i>	'yes', 'no',	
6	Karyawan_id	<i>Karyawan_id</i>	<i>integer</i>	11	
7	Bagian_id	<i>Bagian_id</i>	<i>char</i>	3	
8	Jabatan_id	<i>Jabatan_id</i>	<i>integer</i>	3	
9	Effective_date	<i>Effective_date</i>	<i>datetime</i>		

10	First_time	<i>First_time</i>	<i>char</i>	1	
11	User_look	<i>User_look</i>	<i>char</i>	1	
12	Active	<i>Active</i>	<i>enum</i>	'off','on',	

f. Spesifikasi File Tabel *rms_m_rekrutmen*

Nama Database : rms

Nama Tabel : *rms_m_rekrutmen*

Akronim : *rms_m_rekrutmen.myd*

Tipe File : *File Master*

Akses File : *Random*

Record Size : 103 byte

Kunci Field : *no_reg*

Tabel IV.10

Spesifikasi File Tabel *rms_m_rekrutmen*

No	Elemen Data	Field Name	Type	Length	Keterangan
1	<i>No_reg</i>	<i>No_reg</i>	<i>Varchar</i>	18	<i>Primary key</i>
2	<i>tanggal</i>	<i>tanggal</i>	<i>date</i>		
3	<i>Toko_id</i>	<i>Toko_id</i>	<i>varchar</i>	10	
4	<i>Bagian_Id</i>	<i>Bagian_id</i>	<i>char</i>	3	
5	<i>Jabatan_id</i>	<i>Jabatan_id</i>	<i>integer</i>	3	
6	<i>Pend_min</i>	<i>Pend_min</i>	<i>varchar</i>	4	

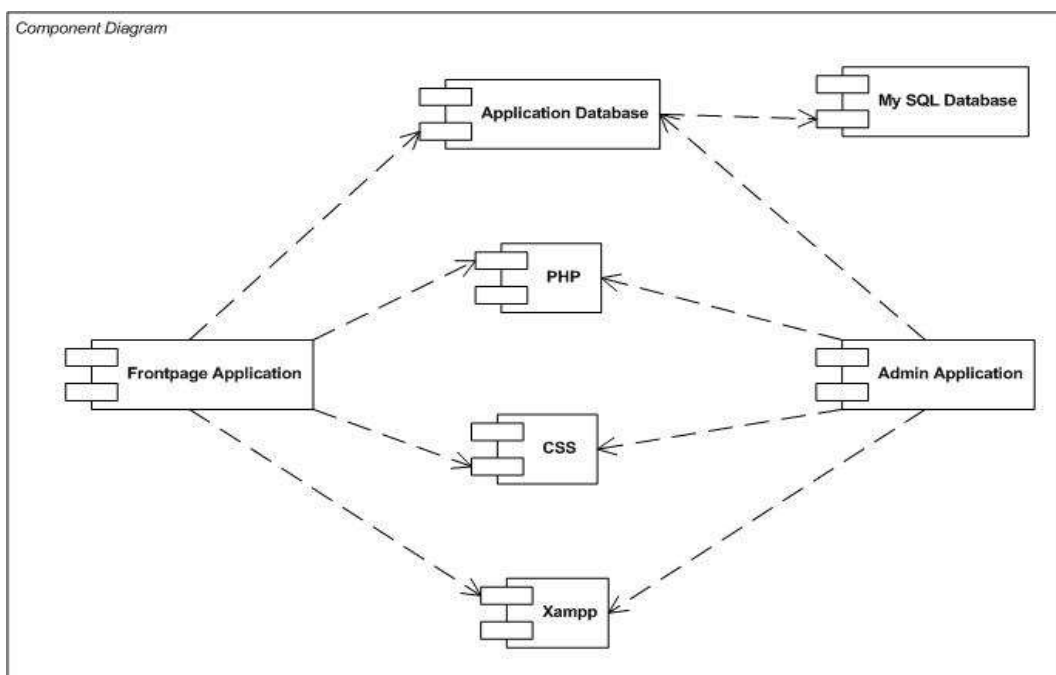
7	<i>Pend_max</i>	<i>Pend_max</i>	<i>varchar</i>	3	
8	<i>Jk</i>	<i>Jk</i>	<i>enum</i>	'laki-laki','perempuan',	
9	<i>Skill</i>	<i>Skill</i>	<i>Text</i>		
10	<i>Pengalaman_kerja</i>	<i>Pengalaman_kerja</i>	<i>Varchar</i>	3	
11	<i>Sts_calon_karyawan</i>	<i>Sts_calon_karyawan</i>	<i>Enum</i>	'permanen','kontrak'	
12	<i>Lokasi_penempatan</i>	<i>Lokasi_penempatan</i>	<i>varchar</i>	3	
13	<i>Wkt_bth</i>	<i>Wkt_bth</i>	<i>date</i>		
14	<i>Ket_lain</i>	<i>Ket_lain</i>	<i>Text</i>		
15	<i>Rekrut_dari</i>	<i>Rekrut_dari</i>	<i>Text</i>		
16	<i>Sts_reg</i>	<i>Sts_reg</i>	<i>Enum</i>	'decline','accept','proses','approved','waiting'	
17	<i>Diajukan_by</i>	<i>Diajukan_by</i>	<i>varchar</i>	25	

18	<i>Diajukan_waktu</i>	<i>Diajukan_waktu</i>	<i>datetime</i>		
19	<i>Diedit_by</i>	<i>Diedit_by</i>	<i>varchar</i>	25	
20	<i>Diedit_waktu</i>	<i>Diedit_waktu</i>	<i>datetime</i>		
21	<i>Disetujui_by</i>	<i>Disetujui_by</i>	<i>varchar</i>	25	
22	<i>Disetujui_waktu</i>	<i>Disetujui_waktu</i>	<i>datetime</i>		
23	<i>Ket_disetujui</i>	<i>Ket_disetujui</i>	<i>varchar</i>	20	
24	<i>Direkrut_by</i>	<i>Direkrut_by</i>	<i>varchar</i>	25	

4.2.2. Software Architecture

A. Component Diagram

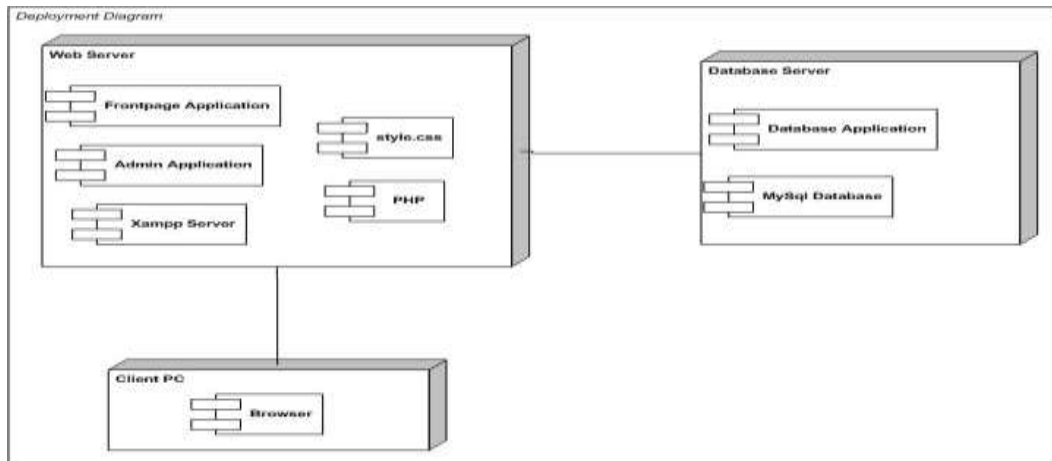
Component Diagram dari website Charoen Pokphand Group ini adalah:



Gambar IV.12
Component Diagram

B. *Deployment Diagram*

Deployment Diagram dari website pionirbeton ini adalah:



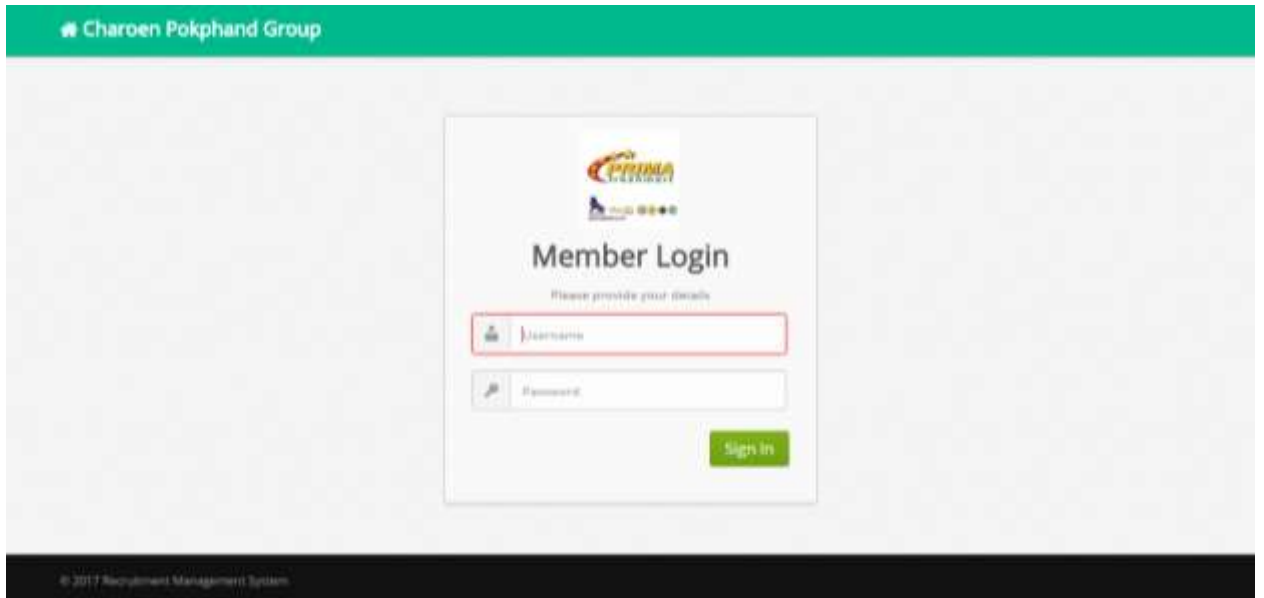
Gambar IV.13
Deployment Diagram

1.2.3. Dokter Interface

4.2.3. User Interface

1. Form Login

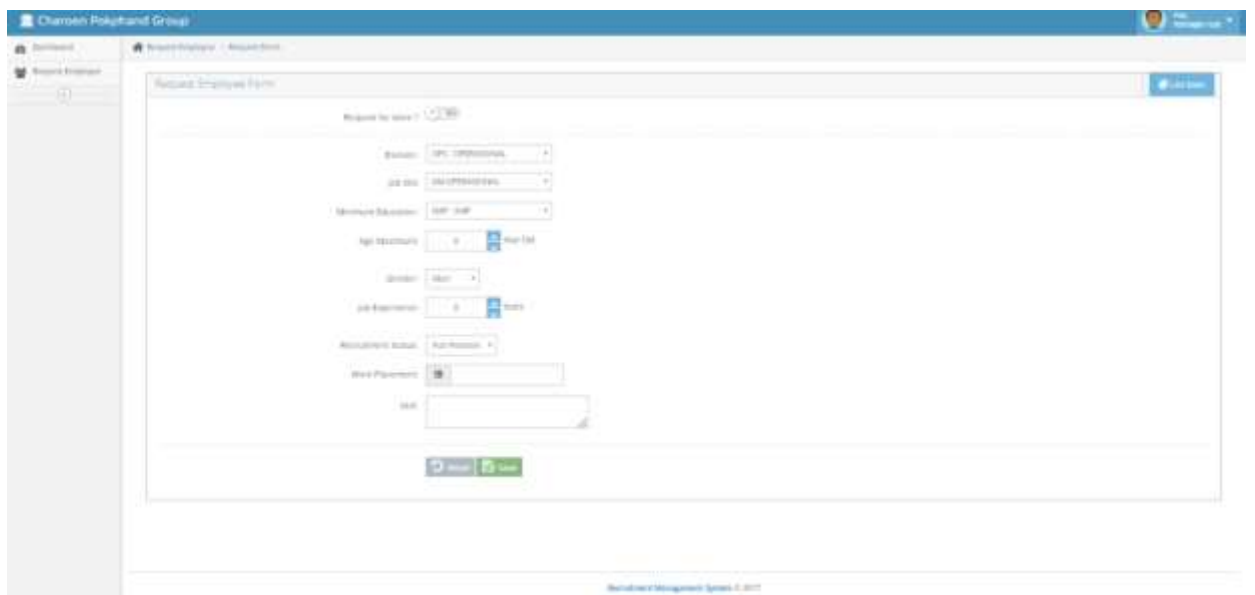
Berikut adalah tampilan form login Charoen Pokphand Group.



The screenshot shows the 'Member Login' interface of the Charoen Pokphand Group Recruitment Management System. The header is green with the company name. The main content area is white and contains a login form with the Charoen Pokphand logo at the top. Below the logo, the text 'Member Login' is displayed, followed by the instruction 'Please provide your details'. There are two input fields: 'Username' and 'Password', each with a small icon to its left. A green 'Sign In' button is located to the right of the password field. At the bottom of the page, a black footer bar contains the text '© 2017 Recruitment Management System'.

2. Form Data Permintaan Karyawan

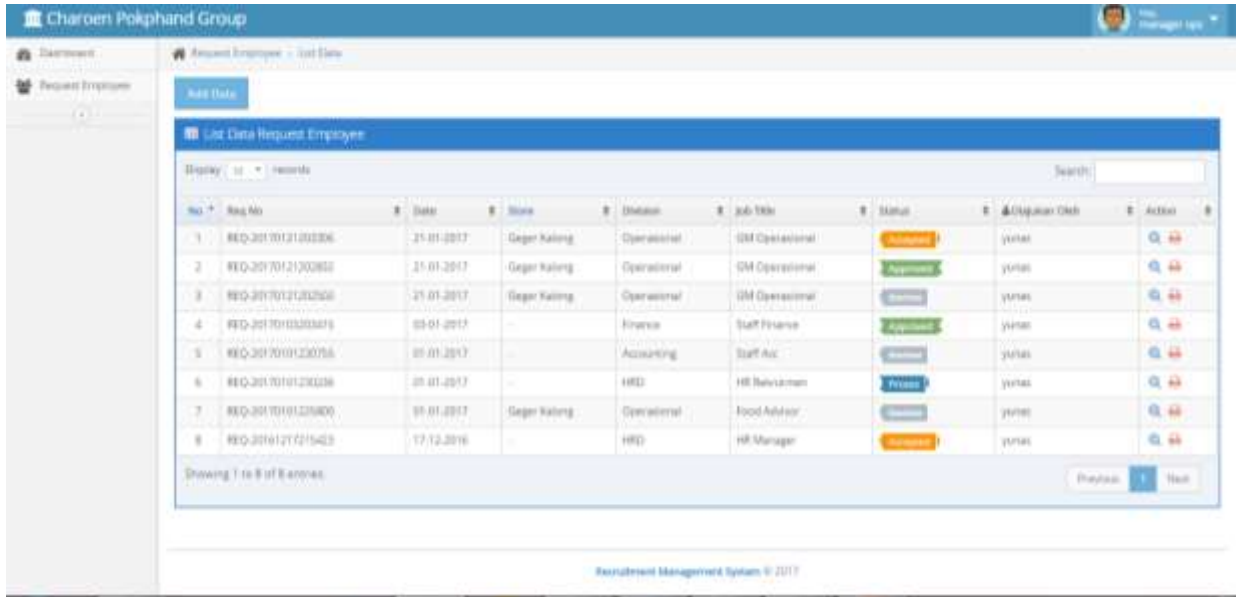
Berikut adalah tampilan form data Permintaan Karyawan.



The screenshot shows the 'Recruitment Employee Form' interface of the Charoen Pokphand Group Recruitment Management System. The header is blue with the company name. The main content area is white and contains a form with various fields for employee data. The fields include: 'Project No.' (text), 'Division' (dropdown), 'Job Title' (dropdown), 'Education' (dropdown), 'Age' (text), 'Gender' (dropdown), 'Job Experience' (text), 'Recruitment Status' (dropdown), 'Work Placement' (text), and 'Date' (text). There are 'Reset' and 'Save' buttons at the bottom of the form. A sidebar on the left contains navigation links: 'Dashboard', 'Recruitment', and 'Recruitment Employee'. At the bottom of the page, a blue footer bar contains the text 'Recruitment Management System © 2017'.

3. Form List Data

Berikut adalah tampilan form List Data.



Charoen Pokphand Group

Recruitment Management System

Account Employee > List Data

Add Data

List Data Request Employee

Display 10 records

No	Req No	Date	Score	Division	Job Title	Status	Approval Date	Action
1	REQ-20170121203306	21-01-2017		Gager Kaling	Operasional	Operasional	yunas	
2	REQ-20170121203800	21-01-2017		Gager Kaling	Operasional	Operasional	yunas	
3	REQ-20170121203800	21-01-2017		Gager Kaling	Operasional	Operasional	yunas	
4	REQ-20170121203800	03-01-2017		Finance	Staff Finance	Operasional	yunas	
5	REQ-20170121203800	03-01-2017		Accounting	Staff Acc	Operasional	yunas	
6	REQ-20170121203800	03-01-2017		HRD	HR Recruitment	Operasional	yunas	
7	REQ-20170121203800	03-01-2017		Gager Kaling	Operasional	Operasional	yunas	
8	REQ-20161217215403	17-12-2016		HRD	HR Manager	Operasional	yunas	

Showing 1 to 8 of 8 entries

Previous Next

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4. Form Surat Pemintaan Karyawan

Berikut adalah tampilan Surat Permintaan Karyawan.



Surat Permintaan Karyawan

No : REQ-20170121203306

Revisi : Permintaan Persetujuan Pengajuan Karyawan

Kepada Yth,
GM HRD
Uj. Sapak Mulyadi Nasari
Di tempat

Dengan Hormat,
Saya yang bertanda tangan di bawah ini **yunas**, mengajukan untuk memintai karyawan baru dengan spesifikasi sebagai berikut :

Posisi : GM Operasional
Divisi : Operasional
Kendaraan : SMP
Usia : 3 tahun
Pengalaman : 1 tahun di bidang ini
Sosi : approve

Mohon agar dapat mempertimbangkan pengajuan ini, dengan segala hormat kami ucapkan terimakasih.

Jakarta, 23-01-2017

yunas

4.3. Code Generation

1) Formulir Login

```
function login() {

    $this->form_validation->set_rules('username', 'Username', 'trim|required');
    $this->form_validation->set_rules('password', 'Password', 'trim|required');
    if ($this->form_validation->run() == FALSE) {
        $this->session->set_flashdata('error', validation_errors());
        redirect('masuk');
    } else {
        $login = array(
            'username' => $this->input->post('username'),
            'password' => $this->input->post('password')
        );
        $return = $this->fungsi->login($login);
        if ($return) {
            $this->session->set_flashdata('success', 'Login Sukses ');
            redirect('dashboard');
        } else {
            $data = array(
                'warning' => 'Login Gagal ;)',
                'error' => "Username dan/atau Password salah !"
            );
            $this->session->set_flashdata($data);
            redirect('masuk');
```

```

    }

}

}

```

2) Form Data Rekrutmen

```

<?php
date_default_timezone_set("Asia/Bangkok");
if (!defined('BASEPATH'))
    exit("No direct script access allowed");

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 * Description of divroom
 *
 */
class Rekrutmen extends MX_Controller {
    /**  ** RESERVASI ** */

    function add_request() {
        if ($_POST != NULL) {
            $user_id = $this->session->userdata('user_id');
            $user_name = $this->session->userdata('user_name');
            $no_req = "REQ-".date('YmdHis');
            $tanggal = date('Y-m-d');
            $toko_id = $this->input->post('toko');
            if(empty($toko_id)){
                $toko_id = '00000000';
            }else{
                $toko_id=$toko_id;
            }
            $bagian_id = $this->input->post('bagian');
            $jabatan_id = $this->input->post('jabatan');
            $pend_min = $this->input->post('education');
            $usia_max= $this->input->post('age');
            $jk = $this->input->post('gender');
            $skill = $this->input->post('skill');
            $pengalaman_kerja = $this->input->post('jobexp');
            $sts_calon_karyawan = $this->input->post('rekstatus');
            $lokasi_penempatan = $this->input->post('workplace');

```

```

        $data = array('no_req' => $no_req, 'tanggal' => $tanggal, ' toko_id' =>
        $ toko_id, 'bagian_id' => $bagian_id,
            'jabatan_id' => $jabatan_id, 'pend_min' => $pend_min, 'usia_max' =>
        $usia_max, 'jk' => $jk ,
            'skill' => $skill, 'pengalaman_kerja' => $pengalaman_kerja,
        'sts_calon_karyawan' => $sts_calon_karyawan,

        'lokasi_penempatan'=>$lokasi_penempatan, 'wkt_bth'=>'', 'ket_lain'=>'', 'sts_req'=>'w
        aiting', 'diajukan_by'=>$user_name, 'diajukan_waktu'=>date('Y-m-d H:i:s'));
        $table = 'rms_rekrutmen';

        $this->db->trans_begin();
        $inreq = $this->mcrud->insert($table, $data);

        if($inreq === FALSE){
            $this->db->trans_rollback();
        }else{
            $this->db->trans_commit();
        }

        echo json_encode(array(
            'msgSucces' => '<button type="button" class="close" data-
        dismiss="alert" aria-hidden="true">&times;</button>
            <strong>Data Permintaan Karyawan Berhasil Di Input</strong>'
        ));
    } else {
        $user_id = $this->session->userdata('user_id');
        $data['title'] = "Request Employee";
        $data['subtitle'] = "Request Form";
        $data['content'] = "request/add";
        $data['module'] = "rekrutmen";

        echo Modules::run('template/user', $data);
    }
}

function d_tampilkanjobtitle()
{
    $bagian = $_GET['d_bagian'];
    $data = $this->db->get_where('rms_m_jabatan', array('bagian_id'=>$bagian))->result();
    foreach ($data as $r)
    {
        echo "<option value='{$r->jabatan_id}'>". strtoupper($r-
        >jabatan). "</option>";
    }
}

```

```

function s_tampilkanjobtitle()
{
    $bagian = $_GET['s_bagian'];
    $data = $this->db-
>get_where('rms_m_jabatan',array('bagian_id'=>$bagian))->result();
    foreach ($data as $r)
    {
        echo "<option value='\$r->jabatan_id'>". strtoupper($r-
>jabatan)."</option>";
    }
}

```

```

function list_request(){

    $user_id = $this->session->userdata('user_id');
    $cek_login = $this->fungsi->cek_login_user();

    $table = 'view_rms_rekrutmen';
    $field = '*';
    $order_by = 'no_req';
    $data['all_data'] = $this->mcrud->getAll($field, $table, $order_by);

    $data['title'] = "Request Employee";
    $data['subtitle'] = "List Data";
    $data['content'] = "request/list";
    $data['module'] = "rekrutmen";

    echo Modules::run('template/user', $data);
}

```

```

function view_request(){

    $user_id = $this->session->userdata('user_id');
    $cek_login = $this->fungsi->cek_login_user();

    $id = $this->uri->segment(3);
    $table = 'view_rms_rekrutmen';
    $pk = 'no_req';
    $data['r'] = $this->mcrud->getByID($table, $pk, $id)->row_array();

    $data['title'] = "Request Employee";
    $data['subtitle'] = "View Data";
    $data['content'] = "request/view";
    $data['form_act'] = "view";
    $data['form_data'] = false;
    $data['module'] = "rekrutmen";

    echo Modules::run('template/user', $data);
}

```

```

}

function print_request(){

    $mpdf=new mPDF("", "", 35,35,47,35,35,35);
    $mpdf->SetImportUse();
    //$mpdf->SetDocTemplate('sample_logoheader2.pdf',1); // 1|0 to continue
after end of document or not -
    //=====
    $mpdf->AddPage();
    $mpdf->WriteHTML('Hallo World');
    $mpdf->AddPage();
    $mpdf->WriteHTML('Hallo World');
    $mpdf->AddPage();
    $mpdf->WriteHTML('Hallo World');
    //=====
    $mpdf->RestartDocTemplate();

    $pdf = new mPDF('utf-8', 'A4', 0, "", 25, 25, 26, 26, 30, 30, 'p');
    $user_id = $this->session->userdata('user_id');
    $cek_login = $this->fungsi->cek_login_user();

    $id = $this->uri->segment(3);
    $table = 'view_rms_rekrutmen';
    $pk = 'no_req';
    $data['r'] = $this->mcrud->getByID($table, $pk, $id)->row_array();

    $data['title'] = "Request Employee";
    $data['subtitle'] = "View Data";
    $data['content'] = "request/view";
    $data['form_act'] = "view";
    $data['form_data'] = false;
    $data['module'] = "rekrutmen";

    $show = $this->load->view('request/print', $data, true);

    $this->mpdf->WriteHTML($show);
    $this->mpdf->Output();
}

function print_laporan(){

    $mpdf=new mPDF("", "", 35,35,47,35,35,35);
    $mpdf->SetImportUse();
    //$mpdf->SetDocTemplate('sample_logoheader2.pdf',1); // 1|0 to continue
after end of document or not -
    //=====
    $mpdf->AddPage();

```

```

$mpdf->WriteHTML('Hallo World');
$mpdf->AddPage();
$mpdf->WriteHTML('Hallo World');
$mpdf->AddPage();
$mpdf->WriteHTML('Hallo World');
//=====================================================
$mpdf->RestartDocTemplate();

$pdf = new mPDF('utf-8', 'A4', 0, "", 25, 25, 26, 26, 30, 30, 'p');
$user_id = $this->session->userdata('user_id');
$cek_login = $this->fungsi->cek_login_user();

$table = 'view_rms_rekrutmen';
$field = '*';
$order_by = 'sts_req';
$data['all_data'] = $this->mcrud->getAll($field, $table, $order_by);

$data['title'] = "Request Employee";
$data['subtitle'] = "View Data";
$data['content'] = "request/view";
$data['form_act'] = "view";
$data['form_data'] = false;
$data['module'] = "rekrutmen";

$show = $this->load->view('request/rekap', $data, true);

$this->mpdf->WriteHTML($show);
$this->mpdf->Output();
}

function edit_request() {
    if ($_POST != NULL) {
        $user_id = $this->session->userdata('user_id');
        $user_name = $this->session->userdata('user_name');

        $toko_id = $this->input->post('toko');
        if(empty($toko_id) || $toko_id=='undefined'){
            $toko_id = '0000000';
        }else{
            $toko_id=$toko_id;
        }

        $bagian_id = $this->input->post('bagian');
        $jabatan_id = $this->input->post('jabatan');
        $pend_min = $this->input->post('education');
        $usia_max = $this->input->post('age');
        $jk = $this->input->post('gender');
    }
}

```



```

$skill = $this->input->post('skill');
$pengalaman_kerja = $this->input->post('jobexp');
$sts_calon_karyawan = $this->input->post('rekstatus');
$lokasi_penempatan = $this->input->post('workplace');
$table = 'rms_rekrutmen';
$pk = 'no_req';
$id = $this->input->post('id');

$data = array('toko_id' => $toko_id, 'bagian_id' => $bagian_id,
    'jabatan_id' => $jabatan_id, 'pend_min' => $pend_min, 'usia_max' =>
$usia_max, 'jk' => $jk,
    'skill' => $skill, 'pengalaman_kerja' => $pengalaman_kerja,
    'sts_calon_karyawan' => $sts_calon_karyawan,

'lokasi_penempatan' => $lokasi_penempatan, 'wkt_bth' => "", 'ket_lain' => "", 'diedit_by' =>
$user_name, 'diedit_waktu' => date('Y-m-d H:i:s'));

$this->db->trans_begin();
$upreq = $this->mcrud->update($table, $data, $pk, $id);

if($upreq === FALSE){
    $this->db->trans_rollback();
}else{
    $this->db->trans_commit();
}
echo json_encode(array(
    'msgSukses' => '<button type="button" class="close" data-
dismiss="alert" aria-hidden="true">&times;</button>
<strong>Data Permintaan Karyawan Berhasil Di Edit</strong>'
));
//$this->load->helper('url');

} else {
    $user_id = $this->session->userdata('user_id');
    $cek_login = $this->fungsi->cek_login_user();

    $id = $this->uri->segment(3);
    $table = 'view_rms_rekrutmen';
    $pk = 'no_req';
    $data['r'] = $this->mcrud->getByID($table, $pk, $id)->row_array();

    $data['title'] = "Request Employee";
    $data['subtitle'] = "Edit Data";
    $data['content'] = "request/edit";
    $data['form_act'] = "edit";
    $data['form_data'] = false;
    $data['module'] = "rekrutmen";

```

```

        echo Modules::run('template/user', $data);
    }
}

function list_approval(){

    $user_id = $this->session->userdata('user_id');
    $cek_login = $this->fungsi->cek_login_user();

    $table = 'view_rms_rekrutmen';
    $field = '*';
    $where = 'sts_req';
    $value = 'waiting';
    $order_by = 'no_req';
    $data['all_data'] = $this->mcrud->getkondisi($table,$where, $value);

    $data['title'] = "Approval Employee";
    $data['subtitle'] = "List Data Need Approval";
    $data['content'] = "approval/list";
    $data['module'] = "rekrutmen";

    echo Modules::run('template/user', $data);
}

function app_request() {

    if ($_POST != NULL) {
        $user_id = $this->session->userdata('user_id');
        $user_name = $this->session->userdata('user_name');

        $sts_req = 'approved';
        $notes = $this->input->post('s_notes');
        $table = 'rms_rekrutmen';
        $pk = 'no_req';
        $id = $this->input->post('id');

        $data
        array('sts_req'=>$sts_req,'sts_keterangan'=>$notes,'disetujui_by'=>$user_name,'dis
        etujui_waktu'=>date('Y-m-d H:i:s'));

        $this->db->trans_begin();
        $upreq = $this->mcrud->update($table, $data, $pk, $id);

        if($upreq === FALSE){
            $this->db->trans_rollback();
        }else{
            $this->db->trans_commit();
        }
    }
}

```

```

    }

    echo json_encode(array(
        'msgSukses' => '<button type="button" class="close" data-
dismiss="alert" aria-hidden="true">&times;</button>
        <strong>Data Permintaan Karyawan Berhasil Di Disetujui</strong>'
    ));

} else {
    $user_id = $this->session->userdata('user_id');
    $cek_login = $this->fungsi->cek_login_user();

    $id = $this->uri->segment(3);
    $table = 'view_rms_rekrutmen';
    $pk = 'no_req';
    $data['r'] = $this->mcrud->getByID($table, $pk, $id)->row_array();

    $data['title'] = "Approval Request Employee";
    $data['subtitle'] = "Approval Data";
    $data['content'] = "approval/approve";
    $data['form_act'] = "Approve";
    $data['form_data'] = false;
    $data['module'] = "rekrutmen";

    echo Modules::run('template/user', $data);
}
}

function dec_request() {
    if ($_POST != NULL) {
        $user_id = $this->session->userdata('user_id');
        $user_name = $this->session->userdata('user_name');

        $sts_req = 'decline';
        $notes = $this->input->post('s_notes');
        $table = 'rms_rekrutmen';
        $pk = 'no_req';
        $id = $this->input->post('id');

        $data
        array('sts_req'=>$sts_req,'sts_keterangan'=>$notes,'disetujui_by'=>$user_name,'dis
etujui_waktu'=>date('Y-m-d H:i:s'));

        $this->db->trans_begin();
        $upreq = $this->mcrud->update($table, $data, $pk, $id);

        if($upreq === FALSE){

```

```

        $this->db->trans_rollback();
    }else{
        $this->db->trans_commit();
    }

    echo json_encode(array(
        'msgSukses' => '<button type="button" class="close" data-
dismiss="alert" aria-hidden="true">&times;</button>
        <strong>Data Permintaan Karyawan Berhasil Di Ditolak</strong>'
    ));

} else {
    $user_id = $this->session->userdata('user_id');
    $cek_login = $this->fungsi->cek_login_user();

    $id = $this->uri->segment(3);
    $table = 'view_rms_rekrutmen';
    $pk = 'no_req';
    $data['r'] = $this->mcrud->getByID($table, $pk, $id)->row_array();

    $data['title'] = "Approval Request Employee";
    $data['subtitle'] = "Pembatalan Data";
    $data['content'] = "approval/decline";
    $data['form_act'] = "edit";
    $data['form_data'] = false;
    $data['module'] = "rekrutmen";

    echo Modules::run('template/user', $data);
}
}

function list_proses() {

    $user_id = $this->session->userdata('user_id');
    $cek_login = $this->fungsi->cek_login_user();

    $table = 'view_rms_rekrutmen';
    $field = '*';
    $where = 'sts_req';
    $value = array('approved','proses','accept');
    $order_by = 'no_req';
    $data['all_data'] = $this->mcrud->getkondisi($table,$where, $value);

    $data['title'] = "Proses Recruitment Employee";
    $data['subtitle'] = "List Data Proses Recruitment";
    $data['content'] = "proses/list";
    $data['module'] = "rekrutmen";

```

```

        echo Modules::run('template/user', $data);
    }

    function add_proses() {

        if ($_POST != NULL) {
            $user_id = $this->session->userdata('user_id');
            $user_name = $this->session->userdata('user_name');

            $sts_req = 'proses';
            $rek_proses = $this->input->post('rek_proses');
            $table = 'rms_rekrutmen';
            $pk = 'no_req';
            $id = $this->input->post('id');

            $data = array('sts_req'=>$sts_req,'rekrut_dari'=>$rek_proses,'direkrut_by'=>$user_name,'di
            rekrut_waktu'=>date('Y-m-d H:i:s'));

            $this->db->trans_begin();
            $supreq = $this->mcrud->update($table, $data, $pk, $id);

            if($supreq === FALSE){
                $this->db->trans_rollback();
            }else{
                $this->db->trans_commit();
            }

            echo json_encode(array(
                'msgSucces' => '<button type="button" class="close" data-
dismiss="alert" aria-hidden="true">&times;</button>
                <strong>Data Permintaan Karyawan Berhasil Di Disetujui</strong>'
            ));

        } else {
            $user_id = $this->session->userdata('user_id');
            $cek_login = $this->fungsi->cek_login_user();

            $id = $this->uri->segment(3);
            $table = 'view_rms_rekrutmen';
            $pk = 'no_req';
            $data['r'] = $this->mcrud->getByID($table, $pk, $id)->row_array();

            $data['title'] = "Process Recruitment Employee";
            $data['subtitle'] = "Process Data";
            $data['content'] = "proses/add";
            $data['form_act'] = "Proses";
            $data['form_data'] = false;
        }
    }

```

```

        $data['module'] = "rekrutmen";

        echo Modules::run('template/user', $data);
    }
}

function update_proses() {

    if ($_POST != NULL) {
        $user_id = $this->session->userdata('user_id');
        $user_name = $this->session->userdata('user_name');

        $sts_req = 'accept';
        $suply = $this->input->post('suply');
        $table = 'rms_rekrutmen';
        $pk = 'no_req';
        $id = $this->input->post('id');
        $sekarang = date('Y-m-d H:i:s');
        $data = array('sts_req'=>$sts_req,'no_req'=>$suply,'direkrut_by'=>$user_name,'direkrut_waktu'=>$sekarang);

        $this->db->trans_begin();
        $upreq = $this->mcrud->update($table, $data, $pk, $id);

        if($upreq === FALSE){
            $this->db->trans_rollback();
        }else{
            $this->db->trans_commit();
        }

        echo json_encode(array(
            'msgSukses' => '<button type="button" class="close" data-dismiss="alert" aria-hidden="true">&times;</button>'
            '<strong>Data Permintaan Karyawan Berhasil Dipenuhi</strong>'
        ));

    } else {
        $user_id = $this->session->userdata('user_id');
        $cek_login = $this->fungsi->cek_login_user();

        $id = $this->uri->segment(3);
        $table = 'view_rms_rekrutmen';
        $pk = 'no_req';
        $data['r'] = $this->mcrud->getByID($table, $pk, $id)->row_array();

        $data['title'] = "Process Recruitment Employee";
        $data['subtitle'] = "Process Data";
    }
}

```

```

        $data['content'] = "proses/suply";
        $data['form_act'] = "Proses";
        $data['form_data'] = false;
        $data['module'] = "rekrutmen";

        echo Modules::run('template/user', $data);
    }
}

function report()
{
    $user_id = $this->session->userdata('user_id');
    $cek_login = $this->fungsi->cek_login_user();

    $search = $this->input->post('status');
    if($search !=null)
    {
        if($search=="*")
        {
            $table = 'view_rms_rekrutmen';
            $field = '*';
            $where = 'sts_req';
            $value =array('approved','proses','accept','decline','waiting');
            $order_by = 'no_req';
            $data['all_data'] = $this->mcrud->getkondisi($table,$where, $value);
        }
        else
        {
            $table = 'view_rms_rekrutmen';
            $field = '*';
            $where = 'sts_req';
            $value = $search;
            $order_by = 'no_req';
            $data['all_data'] = $this->mcrud->getkondisi($table,$where, $value);
        }
    }
    else
    {
        $table = 'view_rms_rekrutmen';
        $field = '*';
        $where = 'sts_req';
        $value =array('approved','proses','accept','decline','waiting');
        $order_by = 'no_req';
        $data['all_data'] = $this->mcrud->getkondisi($table,$where, $value);
    }
}

```

```

$data['title'] = "Proses Recruitment Employee";
$data['subtitle'] = "List Data Proses Recruitment";
$data['content'] = "report/report";
$data['module'] = "rekrutmen";
$data['status2']=$search;

echo Modules::run('template/user', $data);

}

function print_reportbyparam()
{
    $param=$_GET['filter'];

    if($param==NULL)
    {
        $mpdf=new mPDF("", "", 35,35,47,35,35,35);
        $mpdf->SetImportUse();
        //$mpdf->SetDocTemplate('sample_logoheader2.pdf',1); // 1|0 to continue
after end of document or not -
        //=====
        $mpdf->AddPage();
        $mpdf->WriteHTML('Hallo World');
        $mpdf->AddPage();
        $mpdf->WriteHTML('Hallo World');
        $mpdf->AddPage();
        $mpdf->WriteHTML('Hallo World');
        //=====
        $mpdf->RestartDocTemplate();

        $pdf = new mPDF('utf-8', 'A4', 0, "", 25, 25, 26, 26, 30, 30, 'p');
        $user_id = $this->session->userdata('user_id');
        $cek_login = $this->fungsi->cek_login_user();

        $table = 'view_rms_rekrutmen';
        $field = '*';
        $order_by = 'sts_req';
        $data['all_data'] = $this->mcrud->getAll($field, $table, $order_by);

        $data['title'] = "Request Employee";
        $data['subtitle'] = "View Data";
        $data['content'] = "request/view";
        $data['form_act'] = "view";
        $data['form_data'] = false;
        $data['module'] = "rekrutmen";

        $show = $this->load->view('request/rekap', $data, true);

```



```

        $this->mpdf->WriteHTML($show);
        $this->mpdf->Output();
    }
    else
    {
        $mpdf=new mPDF("", "", 35,35,47,35,35,35);
        $mpdf->SetImportUse();
        //$mpdf->SetDocTemplate('sample_logoheader2.pdf',1); // 1|0 to continue
after end of document or not -
        //=====
        $mpdf->AddPage();
        $mpdf->WriteHTML('Hallo World');
        $mpdf->AddPage();
        $mpdf->WriteHTML('Hallo World');
        $mpdf->AddPage();
        $mpdf->WriteHTML('Hallo World');
        //=====
        $mpdf->RestartDocTemplate();

        $pdf = new mPDF('utf-8', 'A4', 0, "", 25, 25, 26, 26, 30, 30, 'p');
        $user_id = $this->session->userdata('user_id');
        $cek_login = $this->fungsi->cek_login_user();
        $table = 'view_rms_rekrutmen';
        $field = '*';
        $where = 'sts_req';
        $value = $param;
        $data['all_data'] = $this->mcrud->getkondisi($table, $where, $value);

        $data['title'] = "Request Employee";
        $data['subtitle'] = "View Data";
        $data['content'] = "request/view";
        $data['form_act'] = "view";
        $data['form_data'] = false;
        $data['module'] = "rekrutmen";

        $show = $this->load->view('request/rekap', $data, true);

        $this->mpdf->WriteHTML($show);
        $this->mpdf->Output();

        #echo 'cetak';
    }

}
}

```

4.4. Testing

Pembahasan mengenai pengujian sistem yang dibuat dengan menggunakan *blackbox testing* untuk pengujian *input output*.

A. Formulir Login

Tabel IV.11

Hasil Pengujian Black Box Testing Formulir Login

No.	Skenario Pengujian	Test Case	Hasil yang Diharapkan	Hasil Pengujian	Kesimpulan
1 .	Menggosongkan Data Login, Pada Login Member. Lalu langsung mengklik tombol “Login”	<i>Username</i> : (Kosong) <i>Password</i> : (kosong)	Sistem akan menolak akses login menampilkan pesan “ <i>Username dan Password Tidak dikenal</i> ”	Sesuai harapan	Valid
2.	Hanya Mengisi data <i>Username</i> dan mengosongkan data <i>password</i> , Lalu langsung mengklik tombol “Login”	<i>Username</i> : 12345 <i>Password</i> : (kosong)	Sistem akan menolak akses login menampilkan pesan “ <i>Userrname dan Password Tidak dikenal</i> ”	Sesuai harapan	Valid
3.	Hanya Mengisi data <i>Password</i> dan mengosongkan data <i>Username</i> , Lalu langsung mengklik tombol “Login”	<i>Username</i> : (kosong) <i>Password</i> : *****	Sistem akan menolak akses login menampilkan pesan “ <i>Username dan Password Tidak dikenal</i> ”	Sesuai harapan	Valid
4.	Menginput data login yang benar, Lalu langsung mengklik tombol “Login”	<i>Username</i> : 1234 <i>Password</i> : *****	Sistem menerima akses login dan kemudian langsung menampilkan halaman utama	Sesuai harapan	Valid

			member.		
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4.5. **Support**

4.5.1. **Publikasi Web**

1. **Nama Domain**

Nama domain (*domain name*) adalah nama unik yang diberikan untuk mengidentifikasi nama *server* komputer seperti *web server* atau *email server* di jaringan komputer ataupun *internet*. Nama domain berfungsi untuk mempermudah pengguna di *internet* pada saat melakukan akses ke *server*, selain juga dipakai untuk mengingat *namaserver* yang dikunjungi tanpa harus mengenal deretan angka yang rumit yang dikenal sebagai *IP address*. Nama domain kadang-kadang disebut pula dengan istilah URL, atau alamat *website*. Untuk itu PT.Prima Food International ingin memiliki nama domain sendiri, dengan nama domain atau URL : <http://180.178.99.250/rms>

2. **Kapasitas *Hosting* dan Analisa Biaya**

Hosting adalah jasa layanan *internet* yang menyediakan *server-server* untuk disewakan sehingga memungkinkan organisasi atau individu menempatkan informasi di *internet*. Kapasitas *hosting* yang ditawarkan penyedia jasa *hosting* pun cukup beragam. Untuk analisa biaya perusahaan harus membayar nama *domain* dan biaya *hosting*. Kedua biaya tersebut akan sangat tergantung pada *hosting* yang dipilih, sebagai contoh di salah satu penyedia jasa *hosting* <https://dewaweb.com> :

Tabel IV.12
Tabel Analisa Biaya

Fitur	Mulai Rp. 15.000 / bln.	Mulai Rp. 30.000 / Bln.
Disk Size	200 MB	1 GB
Support Priority	UNMETERED	UNMETERED
Resource Limit	++	+++
Add on Domain	0	1
Park Domain	0	1
Minimum Kontrak	3 bulan	1 bulan

4.5.2. Spesifikasi *Hardware* dan *Software*

Perangkat keras yang dibutuhkan dalam Sistem Informasi Klinik Denta Medika ini adalah sebagai berikut:

Tabel IV.13
Spesifikasi *Hardware* dan *Software*

Kebutuhan	Keterangan
Sistem Operasi (OS)	: <i>Windows 7 Ultimate</i>
<i>Processor</i>	: <i>Intel Atom N570 (1.66 GHz, 1MB L2 Cache)</i>
RAM	: 2 GB DDR3
<i>Harddisk</i>	: 320 GB
CD-ROM	: 52x
Monitor	: 10.1"
<i>Keyboard</i>	: 108 Key
<i>Printer</i>	: <i>HP Deskjet F2410</i>
<i>Mouse</i>	: Standart
<i>Browser</i>	: Mozilla Firefox, Google Chrome, Internet Explorer

<i>Software</i>	<i>: Macromedia Dreamweaver MX 2004, Adobe Photoshop CS3, Xampp.</i>
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4.6. Spesifikasi Dokumen Sistem Usulan

1. Nama Dokumen : Lembar Data permintaan karyawan
- Fungsi : Sebagai data permintaan karyawan
- Sumber : *manager OPS*
- Tujuan : *manager HRD*
- Media : Kertas
- Jumlah : Satu Lembar
- Frekuensi : Setelah melakukan pengisian data permintaan karyawan
- Format : Lampiran B-5