

4. IMPLEMENTASI SISTEM

Pada bab ini akan membahas implementasi sistem dan program. Pemrograman menggunakan PHP dan database menggunakan *localhost* SQL.

Untuk menggunakan *localhost* SQL, perlu menggunakan aplikasi XAMPP. Berikut cara install dan penggunaan XAMPP:

- Download dan Install XAMPP sesuai dengan Sistem Operasi yang dipakai. Link dapat menggunakan <https://www.apachefriends.org/download.html>
- Aktifkan Apache dan MySQL di XAMPP
- Akses localhost/phpmyadmin pada browser untuk membuat database

4.1 Kustomisasi dan Konfigurasi

Sistem memiliki beberapa bagian program yang dijalankan dalam bermacam-macam kegiatan. Hubungan tiap proses dapat dilihat pada Tabel 4.1.

Tabel 4.1

Rangkuman dan Segmen Program

Proses	Desain Gambar	Kegiatan	Segmen Program
Login		Connect database	Segmen Program 4.1
		Proses login	Segmen Program 4.2
Peminjaman Buku	Gambar 3.6	Create buku	Segmen Program 4.3
		Add quantity peminjaman	Segmen Program 4.4
		Acc peminjaman	Segmen Program 4.5
		Extend	Segmen Program 4.6
		Pengembalian buku	Segmen Program 4.7
		Denda	Segmen Program 4.8
		Rating Buku	Segmen Program 4.9
		Rekomendasi Buku	Segmen Program 4.10
Pembelian Buku	Gambar 3.7	Create member	Segmen Program 4.11
		Cart	Segmen Program 4.12
		Pembayaran	Segmen Program 4.13

Proses	Desain Gambar	Kegiatan	Segmen Program
		Update Pembelian	Segmen Program 4.14
Absensi	Gambar 3.9	Add absensi	Segmen Program 4.15
Perkunjungan	Gambar 3.9	Count perkunjungan	Segmen Program 4.16
Penjadwalan	Gambar 3.8	Add bidang penatalayan	Segmen Program 4.17
		Add bidang member	Segmen Program 4.18
		Add Penatalayan	Segmen Program 4.19
Logout		Proses logout	Segmen Program 4.20

4.2 Proses Login

Login akan melakukan pengecekan kesamaan antara username dan password yang dimasukkan. Jika terdeteksi bahwa admin yang melakukan login, maka akan diarahkan menuju backend, sedangkan jemaat akan diarahkan menuju frontend. Proses 4.2 dapat dijalankan melalui 2 tahapan pada Segmen Program 4.1 dan Segment Program 4.2.

Segmen Program 4.1 Koneksi Database melalui PHP

```
<?php
    $koneksi                                =
mysqli_connect("localhost","root","","grii");
    if (mysqli_connect_errno()){
        echo "Koneksi database gagal : " .
mysqli_connect_error();
    }
?>
```

Segmen Program 4.2 Proses Login

```
<?php
session_start();
date_default_timezone_set('Asia/Jakarta');
include 'config.php';
$username = $_POST['username'];
```

```

$password = $_POST['password'];
$update = date('Y-m-d H:i:s');
$login = mysqli_query($koneksi,"select * from users where
username='$username' and password='$password'");
$cek = mysqli_num_rows($login);
if($cek > 0){
    $data = mysqli_fetch_assoc($login);
    if($data['username']=="admin")
    {
        $qry = $koneksi->query("SELECT * from borrows");
        while($row= $qry->fetch_assoc()):
            $tgl1 = new DateTime($update);
            $tgl2 = new DateTime($row['due_date']);
            $day = $tgl1->diff($tgl2)->days + 1;
            $id = $row['id'];
            if($tgl1 >= $tgl2)
            {
                $query="UPDATE borrows SET
date_update='$update' where id='$id'";
                mysqli_query($koneksi, $query);
            }
            else
            {
                $day = $tgl1->diff($tgl2)->days + 1;
                $denda= $day*5000;
                $query="UPDATE borrows SET
date_update='$update', denda='$denda' where id='$id'";
                mysqli_query($koneksi, $query);
            }
        endwhile;
        $_SESSION['username'] = $username;
        echo "<script>alert('Welcome Admin!')</script>";

        echo"<script>window.open('home.php','_self')</script>";
        exit();
        // alihkan ke halaman dashboard admin
    }
}

```

```

    }
    else
    {
        $_SESSION['username'] = $username;
        // alihkan ke halaman dashboard pegawai
        echo "<script>alert('Welcome
Anggota!')</script>";

echo"<script>window.open('home_anggota.php','_self')</scrip
t>";

        exit();
        exit();
    }
}
else
{
    echo "<script>alert('Failed to Login!')</script>";

echo"<script>window.open('index.php','_self')</script>";
    exit();
}
?>

```

4.3 Proses Peminjaman Buku

Peminjaman buku dapat dilakukan jika ada buku yang tersedia untuk dipinjam. Admin dapat melakukan add quantity peminjaman (Segmen Program 4.4)

Segmen Program 4.3 Proses Input Buku Baru

```

<?php
session_start();

if(!$_SESSION['username'])

```

```

{
    header("Location: ../login.php");
}
?>
<?php
include("config.php");
if(isset($_POST['add_book']))
{
$category_id = $_POST['category_id'];
$title = $_POST['title'];
$author = $_POST['author'];
$description = $_POST['description'];
$kode = $_POST['kode'];
$status = $_POST['status'];
$tanggal = date("Y-m-d H:i:s");
$quantity = $_POST['quantity'];
$price = $_POST['price'];
$q_borrow = $_POST['q_borrow'];
$nama_file = $_FILES['image']['name'];
$ukuran_file = $_FILES['image']['size'];
$tipe_file = $_FILES['image']['type'];
$tmp_file = $_FILES['image']['tmp_name'];
$path = "images/".$nama_file;
$check_item="select * from products WHERE kode='$kode'";
$run_query=mysqli_query($koneksi,$check_item);
if(mysqli_num_rows($run_query)>0)
{
    echo "<script>alert('Book is already exist, Please
try another one!')</script>";

echo"<script>window.open('add_book.php','_self')</script>";
    exit();
}

if($tipe_file == 'image/jpeg' || $tipe_file ==
'image/png' || $tipe_file == 'image/jpg'){

```



```
}  
?>
```

Segmen Program 4.4 Add Quantity Peminjaman

```
<?php  
session_start();  
date_default_timezone_set('Asia/Jakarta');  
if(!$_SESSION['username'])  
{  
    header("Location: ../login.php");  
}  
?>  
  
<?php  
include("config.php");  
if(isset($_POST['add_borrow']))  
{  
    $product_id = $_POST['product_id'];  
    $q_borrow = $_POST['q_borrow'];  
    $tanggal = date('Y-m-d H:i:s');  
    $book = mysqli_query($koneksi,"select * from `products`  
where id='$product_id'");  
    $row=mysqli_fetch_array($book);  
    $before=$row['q_borrow'];  
    $add = $before + $q_borrow;  
    $query="UPDATE products SET q_borrow='$add',  
date_updated='$tanggal', status='1' where  
id='$product_id'";  
    mysqli_query($koneksi, $query);  
    echo "<script>alert('Added!')</script>";  
    echo"<script>window.open('view_book.php','_self')</script>"  
    ;  
    exit();  
}  
?>
```

Setelah itu, admin dapat melakukan acc peminjaman (Segmen Program 4.5) dan

dapat dilanjutkan dengan fitur extend (Segmen Program 4.6) yang hanya dapat dilakukan sekali dan return buku (Segmen Program 4.7) untuk melakukan pencatatan pengembalian buku.

Segmen Program 4.5 Persetujuan Peminjaman oleh Admin

```
<?php
session_start();
if (!$_SESSION['username'])
{
    header("Location: ../login.php");
}
?>

<?php
include 'config.php';
$id = $_GET['id'];
$qr=mysqli_query($koneksi,"select * from `borrows` where
id='$id'");
$line=mysqli_fetch_array($qr);
$date_created = date("Y-m-d H:i:s");
$due_date = date('Y-m-d H:i:s', strtotime('+7 days',
strtotime($date_created)));
$query="UPDATE borrows SET
due_date='$due_date',date_created='$date_created',
date_update='$date_created', acc_pinjam=1 where id='$id'";
mysqli_query($koneksi, $query);
echo "<script>alert('Data successfully
updated!')</script>";
echo"<script>window.open('borrowed.php','_self')</script>"
;
exit();
?>
```

Segmen Program 4.6 Extend

```
<?php
session_start();
```

```

if(!$_SESSION['username'])
{
    header("Location: ../login.php");
}
?>
<?php
include 'config.php';
$id = $_GET['id'];
$qr=mysqli_query($koneksi,"select * from `borrows` where
id='$id'");
$line=mysqli_fetch_array($qr);
$avail = $line['due_date'];
$new_dd = date('Y-m-d H:i:s', strtotime('+7 days',
strtotime($avail)));
$query="UPDATE borrows set due_date='$new_dd',
perpanjang=1 where id='$id'";
mysqli_query($koneksi, $query);
echo "<script>alert('Extended!')</script>";
echo"<script>window.open('borrowed.php','_self')</script>"
;
exit();
?>

```

Segmen Program 4.7 Pengembalian Buku

```

<?php
session_start();
if(!$_SESSION['username'])
{
    header("Location: ../login.php");
}
?>
<?php
include 'config.php';
$borrow_id = $_GET['id'];
$query=mysqli_query($koneksi,"select * from `borrows` where
id='$borrow_id'");

```

```

$row=mysqli_fetch_array($query);
$client_id = $row['client_id'];
$due_date = $row['due_date'];
$date_return = date('Y-m-d H:i:s');
$paid = 0;
$product_id = $row['product_id'];
$ttl1 = new DateTime($date_return);
$ttl2 = new DateTime($row['due_date']);
if($ttl2>$ttl1){$denda = 0;}
else
{
    $day = $ttl1->diff($ttl2)->days;
    $denda = $day*5000;
}
$qry = "INSERT INTO
returns(borrow_id,client_id,due_date,date_return,
denda,paid, product_id)
VALUES('$borrow_id','$client_id','$due_date','$date_return'
,'$denda','$paid', '$product_id')";
mysqli_query($koneksi, $qry);
$delete = "DELETE from borrows where id='$borrow_id'";
mysqli_query($koneksi, $delete);
echo "<script>alert('Returned!')</script>";
echo"<script>window.open('borrowed.php','_self')</script>";
exit();
?>

```

Saat keterlambatan pengembalian terjadi, maka jemaat akan dikenakan denda (Segmen Program 4.8) yang pembayarannya harus dilakukan pengecekan oleh admin. Langkah selanjutnya, tiap buku yang telah dikembalikan jemaat akan diminta melakukan rating (Segmen Program 4.9) yang akan digunakan sebagai perhitungan pada rekomendasi buku (Segmen Program 4.10)

Segmen Program 4.8 Denda

```
<?php
```

```

$tgl1 = new DateTime($row['date_update']);
$tgl2 = new DateTime($row['due_date']);
if($row['acc_pinjam']!= 0 ):
if($tgl2>$tgl1)
{
echo "0";
}
else
{
$day = $tgl1->diff($tgl2)->days;
$denda = $day*5000;
echo number_format($denda);
}
endif;
?>

```

Segmen Program 4.9 Rating oleh Jemaat

```

<?php
session_start();
if(!$_SESSION['username'])
{
    header("Location: ../login.php");
}
?>
<?php
include("config.php");
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $rating = $_POST["rate"];
    $title_id = $_GET['product_id'];
    $username = $_SESSION['username'];
    $user = mysqli_query($koneksi,"select * from `users`
where username='$username'");
    $row=mysqli_fetch_array($user);
    $user_id = $row['id'];
    $query = "INSERT INTO rating (user_id, title_id,
rating) VALUES ('$user_id', '$title_id', '$rating')";

```

```

        $query_run = mysqli_query($koneksi, $query);
        $query = "UPDATE returns SET cek_rating=1 where
product_id='$title_id' and client_id='$user_id'";
        $sql = mysqli_query($koneksi, $query);
echo"<script>window.open('all_denda.php','_self')</script>"
;
}
?>

```

Segmen Program 4.10 Rekomendasi Buku

```

<?php
session_start();
if(!$SESSION['username'])
{
    header("Location: ../backend/index.php");
}
?>
<?php
    require_once 'config.php';
    $username = $SESSION['username'];
    $query=mysqli_query($koneksi,"select * from `users`
where username='$username'");
    $row3=mysqli_fetch_array($query);
    $loginUserId = $row3['id'];
    $bookList = [];
    $qry = $koneksi->query("SELECT * from products");
    while($row = $qry->fetch_assoc()) {
        $bookList[] = $row['id'];
    }
    $userList = [];
    $qry = $koneksi->query("SELECT * from users");
    while($row = $qry->fetch_assoc()) {
        $userList[] = $row['id'];
    }
    $bookRatings = [];
    $qry = $koneksi->query("SELECT * from rating");

```

```

while($row = $qry->fetch_assoc()) {
    $userId = $row['user_id'];
    $bookId = $row['title_id'];
    $rating = $row['rating'];
    $found = -1;
    foreach ($bookRatings as $idx => $arr) {
        if ($arr['book_id'] == $bookId) {
            $found = $idx;
            break;
        }
    }
    if ($found == -1) {
        $bookRatings[] = [
            "book_id" => $bookId,
            "users" => [[
                "id" => $userId,
                "rating" => $rating,
            ]],
        ];
    } else {
        $bookRatings[$found]['users'][] = [
            "id" => $userId,
            "rating" => $rating,
        ];
    }
}
$similarityMatrix = array();
foreach ($bookRatings as $arr) {
    $ratingsBook1 = array();
    foreach ($arr['users'] as $rows) {
        $ratingsBook1[] = $rows['rating'];
    }
    foreach ($bookRatings as $arr2) {
        $ratingsBook2 = array();
        foreach ($arr2['users'] as $rows) {
            $ratingsBook2[] = $rows['rating'];

```

```

    }

    $similarityMatrix[$arr['book_id']][$arr2['book_id']] =
    cosineSimilarity($ratingsBook1, $ratingsBook2);
    }
}
$predictedFinal = array();
$maeFinal = array();
foreach ($bookList as $bookId) {
    foreach ($userList as $userId) {
        $predictedRating = adjustedWeightedSum($userId,
$bookId, $bookRatings, $similarityMatrix);
        $mae = abs($predictedRating -
getRatingValue($userId, $bookId, $bookRatings));
        $predictedFinal[$userId][$bookId] =
$predictedRating;
        $maeFinal[$bookId][$userId] = $mae;
    }
}
foreach ($userList as $userId) {
    uasort($predictedFinal[$userId], function($a, $b) {
        return $b - $a > 0;
    });
}

$max = 3; // jumlah buku maks

$count = 0;
$predictedBookId = [];
foreach ($predictedFinal[$loginUserId] as $bookId =>
$value) {
    $predictedBookId[] = $bookId;
    $count ++;
    echo $bookId;
    $query=mysqli_query($koneksi,"select * from
`products` where id='$bookId'");
}

```

```

        $row2=mysqli_fetch_array($query);
        echo $row2['title'];
        echo "<br>";
        if ($count >= $max) break;
    }
    function cosineSimilarity($vec1, $vec2) {
        $avgVec1 = count($vec1) > 0 ? array_sum($vec1) /
count($vec1) : 0;
        $avgVec2 = count($vec2) > 0 ? array_sum($vec2) /
count($vec2) : 0;
        $resultVec1 = array();
        foreach ($vec1 as $idx => $val) {
            $resultVec1[$idx] = $val - $avgVec1;
        }
        $resultVec2 = array();
        foreach ($vec2 as $idx => $val) {
            $resultVec2[$idx] = $val - $avgVec2;
        }
        $powVec1 = array();
        foreach ($resultVec1 as $idx => $value) {
            $powVec1[] = pow($value, 2);
        }
        $powVec2 = array();
        foreach ($resultVec2 as $idx => $value) {
            $powVec2[] = pow($value, 2);
        }
        $sumResultVec1 = sqrt(array_sum($powVec1));
        $sumResultVec2 = sqrt(array_sum($powVec2));
        $multipliedResultVec = array();
        foreach ($resultVec1 as $idx => $value) {
            $multipliedResultVec[] = $value *
(isset($resultVec2[$idx]) ? $resultVec2[$idx] : 0);
        }
        $sumMultipliedResult =
array_sum($multipliedResultVec);
        $finalResult = ($sumResultVec1 * $sumResultVec2) >

```

```

0 ? $sumMultipliedResult / ($sumResultVec1 *
$sumResultVec2) : 0;
    return $finalResult;
}

function adjustedWeightedSum($userId, $bookId,
$bookRatings, $similarityMatrix) {
    $allUserRating = array();
    foreach ($bookRatings as $arr) {
        foreach ($arr['users'] as $row) {
            if ($row['id'] == $userId) {
                $allUserRating[$arr['book_id']] =
$row['rating'];
            }
        }
    }
    $avgBookRating = array();
    foreach ($bookRatings as $arr) {
        $avg = array();
        foreach ($arr['users'] as $row) {
            $avg[] = $row['rating'];
        }
        $avgBookRating[$arr['book_id']] = count($avg) >
0 ? array_sum($avg) / count($avg) : 0;
    }
    $resultRating = array();
    foreach ($avgBookRating as $bookIdTemp => $value) {
        $resultRating[$bookIdTemp] =
(isset($allUserRating[$bookIdTemp]) ?
$allUserRating[$bookIdTemp] : 0) - $value;
    }
    $multipliedRating = 0;
    $sumAbsolute = 0;
    if (isset($similarityMatrix[$bookId])) {
        foreach ($similarityMatrix[$bookId] as
$bookIdTemp => $value) {

```

```

        $multipliedRating +=
(isset($resultRating[$bookIdTemp]) ?
$resultRating[$bookIdTemp] : 0) * $value;
        $sumAbsolute += abs($value);
    }
}
    $dividedRating = $sumAbsolute > 0 ?
$multipliedRating / $sumAbsolute : 0;
    return $dividedRating +
(isset($avgBookRating[$bookId]) ? $avgBookRating[$bookId] :
0);
}
function getRatingValue($userId, $bookId, $bookRatings)
{
    foreach ($bookRatings as $arr) {
        if ($arr['book_id'] == $bookId) {
            foreach ($arr['users'] as $row) {
                if ($row['id'] == $userId) {
                    return $row['rating'];
                }
            }
        }
    }
}
?>

```

4.3 Proses Pembelian Buku

Dalam melakukan pembelian buku, admin dapat menambahkan jemaat kedalam sistem (Segmen Program 4.11).

Segmen Program 4.11 Add Member

```

<?php
session_start();
if (!$_SESSION['username'])
{

```

```

        header("Location: ../login.php");
    }
?>
<?php
include("config.php");
if(isset($_POST['add_member']))
{
    $full_name = $_POST['full_name'];
    $current_address = $_POST['current_address'];
    $username = $_POST['username'];
    $password = $_POST['password'];
    $contact = $_POST['contact'];
    $tanggal = date("Y-m-d H:i:s");
    $check_item="select * from users WHERE
username='$username'";
    $run_query=mysqli_query($koneksi,$check_item);
    if(mysqli_num_rows($run_query)>0)
    {
        echo "<script>alert('Username is already exist,
Please try another
one!')</script>";echo"<script>window.open('add_member.php',
'_self')</script>";
        exit();
    }
    else
    {
        $query = "INSERT INTO users(full_name,
current_address, username,password,contact, member_date,
cek_kepala, cek_kunjungan, cek_penatalayan)
VALUES('$full_name','$current_address','$username','$passwo
rd','$contact','$tanggal', 0, -3, 0)";
        $sql = mysqli_query($koneksi, $query); // Eksekusi/
Jalankan query dari variabel $query
        header("location: view_member.php");
    }
}

```

```
?>
```

Setelah melakukan pemilihan buku, jemaat dapat menambahkan buku yang akan dibeli ke dalam cart (Segmen Program 4.12) dan dilanjutkan dengan melakukan pemilihan pembayaran (Segmen Program 4.13).

Segmen Program 4.12 Cart Belanja

```
<?php
session_start();
if(!$_SESSION['username'])
{
    header("Location: ../login.php");
}
?>
<?php
include("config.php");
if(isset($_POST['add_category']))
{
    $category = $_POST['category'];
    $description = $_POST['description'];
    $status = $_POST['status'];
    $tanggal = date("Y-m-d H:i:s");
    $check_item="select * from categories WHERE
category='$category'";
    $run_query=mysqli_query($koneksi,$check_item);
    if(mysqli_num_rows($run_query)>0)
    {
        echo "<script>alert('Category is already exist,
Please try another one!')</script>";
        echo"<script>window.open('add_category.php','_self')</scrip
t>";
        exit();
    }
    $saveitem="insert into categories (category,
description, status, date_created) VALUE
```

```

('$category','$description','$status', '$tanggal');"
    mysqli_query($koneksi,$saveitem);
    echo "<script>alert('Data successfully
saved!')</script>";
    echo
"<script>window.open('category_list.php','_self')</script>"
;
}
?>

```

Segmen Program 4.13 Pembayaran Jemaat

```

<?php
session_start();
if(!$_SESSION['username'])
{
    header("Location: ../login.php");
}
?>
<?php
include("config.php");
if(isset($_POST['cod']))
{
    $payment_method = "cod";
    $amount = $_POST['amount'];
    $status = 0;
    $paid = $_POST['paid'];
    $tanggal = date("Y-m-d H:i:s");
    $username= $_SESSION['username'];
    $query=mysqli_query($koneksi,"select * from `users`
where username='$username'");
    $row=mysqli_fetch_array($query);
    $client_id = $row['id'];
    $username=$_SESSION['username'];
    $query = "INSERT INTO orders(client_id,payment_method,
amount,status, date_created, paid, date_updated)
VALUES('$client_id','$payment_method','$amount','$status',

```

```

'$tanggal', '$paid', '$tanggal');"
    $sql = mysqli_query($koneksi, $query);
    if($sql){
        $order=mysqli_query($koneksi,"select * from
`orders` where client_id='$client_id' and
amount='$amount'");
        $qrr=mysqli_fetch_array($order);
        $order_id= $qrr['id'];
        $username= $_SESSION['username'];
        $query=mysqli_query($koneksi,"select * from `users`
where username='$username'");
        $row=mysqli_fetch_array($query);
        $client_id = $row['id'];
        $qry = $koneksi->query("SELECT * from cart where
client_id ='$client_id'");
        while($row= $qry->fetch_assoc()):
            $product_id = $row['product_id'];
            $quantity = $row['quantity'];
            $price = $row['price'];
            $total = $row['gtotal'];
            $query = "INSERT INTO order_list(order_id,
product_id,quantity,price, total)
VALUES('$order_id','$product_id','$quantity','$price','$tot
al')";
            $sql = mysqli_query($koneksi, $query);
            $delete = "DELETE from cart";
            $line = mysqli_query($koneksi, $delete);
            $cek_inventory=mysqli_query($koneksi,"select * from
`products` where id='$product_id'");
            $x=mysqli_fetch_array($cek_inventory);
            $inv = $x['quantity'];
            $sold = $koneksi->query("SELECT sum(quantity) as
total FROM order_list where
product_id='$product_id'")->fetch_assoc()['total'];
            $max=$inv-$sold;
            if($max == 0)

```

```

        {
            $ganti="UPDATE products SET status=0 where
id='$product_id'";
            mysqli_query($koneksi, $ganti);
        }
        endwhile;
        echo "<script>alert('Checkout!')</script>";
echo"<script>window.open('home_anggota.php','_self')</scrip
t>";

        exit();
    }else{
        echo "<script>alert('Cannot input to
database!')</script>";
echo"<script>window.open('checkout.php','_self')</script>";
        exit();
    }
}
if(isset($_POST['mbanking']))
{
    $payment_method = "mbanking";
    $amount = $_POST['amount'];
    $status = 0;
    $paid = $_POST['paid'];
    $tanggal = date("Y-m-d H:i:s");
    $username= $_SESSION['username'];
    $query=mysqli_query($koneksi,"select * from `users`
where username='$username'");
    $row=mysqli_fetch_array($query);
    $client_id = $row['id'];
    $username=$_SESSION['username'];
    $query = "INSERT INTO orders(client_id,payment_method,
amount,status, date_created, paid, date_updated)
VALUES('$client_id','$payment_method','$amount','$status',
'$tanggal', '$paid', '$tanggal')";
    $sql = mysqli_query($koneksi, $query);
    if($sql){

```

```

        $order=mysqli_query($koneksi,"select * from
`orders` where client_id='$client_id' and
amount='$amount'");

        $qrt=mysqli_fetch_array($order);
        $order_id= $qrt['id'];
        $username= $_SESSION['username'];
        $query=mysqli_query($koneksi,"select * from `users`
where username='$username'");
        $row=mysqli_fetch_array($query);
        $client_id = $row['id'];
        $qry = $koneksi->query("SELECT * from cart where
client_id ='$client_id'");
        while($row= $qry->fetch_assoc()):
            $product_id = $row['product_id'];
            $quantity = $row['quantity'];
            $price = $row['price'];
            $total = $row['gtotal'];
            $query = "INSERT INTO order_list(order_id,
product_id,quantity,price, total)
VALUES('$order_id','$product_id','$quantity','$price','$tot
al')";
            $sql = mysqli_query($koneksi, $query);
            $cek_inventory=mysqli_query($koneksi,"select * from
`products` where id='$product_id'");
            $x=mysqli_fetch_array($cek_inventory);
            $inv = $x['quantity'];
            $sold = $koneksi->query("SELECT sum(quantity) as
total FROM order_list where
product_id='$product_id'")->fetch_assoc()['total'];
            $max=$inv-$sold;
            if($max == 0)
            {
                $ganti="UPDATE products SET status=0 where
id='$product_id'";
                mysqli_query($koneksi, $ganti);
            }

```

```

endwhile;
echo"<script>window.open('mbanking.php','_self')</script>";
    exit();
}else{
    echo "<script>alert('Cannot input to
database!')</script>";echo"<script>window.open('checkout.ph
p','_self')</script>";
    exit();
}
}
?>

```

Langkah selanjutnya, admin akan terus mengupdate aktivitas pembelian (Segmen Program 4.14).

Segmen Program 4.14 Update Pembelian

```

<?php
session_start();
if(!$_SESSION['username'])
{
    header("Location: ../login.php");
}
?>
<?php
include("config.php");
if(isset($_POST['update_status']))
{
    $id = $_POST['id']; //75
    $status = $_POST['status'];
    $updated_date = date('Y-m-d H:i:s');
    if($status==5)
    {
        $query="UPDATE orders SET amount=0 where id='$id'";
        mysqli_query($koneksi, $query);
        $qry = $koneksi->query("SELECT * from order_list where

```

```

order_id = '$id');
    while($row= $qry->fetch_assoc()):
        $query="UPDATE order_list SET quantity=0 where
order_id='$id'";
        mysqli_query($koneksi, $query);
    endwhile;
    $qr="UPDATE orders SET status='$status',
date_updated='$updated_date' where id='$id'";
    mysqli_query($koneksi, $qr);
    echo "<script>alert('Data successfully
updated!')</script>";
    echo
"<script>window.open('view_order.php','_self')</script>";
    exit();
}
else
{
    $query="UPDATE orders SET status='$status',
date_updated='$updated_date' where id='$id'";
    mysqli_query($koneksi, $query);
    echo "<script>alert('Data successfully
updated!')</script>";
    echo
"<script>window.open('view_order.php','_self')</script>";
    exit();
}
}
?>

```

4.4 Proses Absensi

Pencatatan Absensi akan dipermudah oleh penggunaan sistem yang dilakukan oleh admin (Segmen Program 4.15)

Segmen Program 4.15 Add Absensi

```
<?php
```

```

        if (isset($_POST['submit'])) {
            foreach ($_POST['id'] as $id):
                $sql = "INSERT INTO absensi (id_jemaat,
id_kegiatan) VALUES ('$id','$id_kegiatan')";
                if (mysqli_query($koneksi, $sql)) {
                    } else {
                        echo
" <script>alert('Error!')</script>";

echo "<script>window.open('absensi.php','_self')</script>";
                    }
                $normal = "UPDATE users SET
cek_kunjungan=-3 where id='$id'";
                mysqli_query($koneksi, $normal);

                $error = "UPDATE kegiatan SET absen='1'
where id='$id_kegiatan'";
                mysqli_query($koneksi, $error);

echo "<script>window.open('view_absen.php','_self')</script>
";

                endforeach;
            }
        }
    ?>

```

4.5 Proses Perkunjungan

Perkunjungan harus dilakukan kepada jemaat yang tidak datang ke gereja 3x berturut-turut dalam kebaktian umum pada hari minggu. Cara pengecekan dapat dilihat pada Segmen Program 4.16

Segmen Program 4.16 Count Perkunjungan

```

<?php
session_start();

if (!$_SESSION['username'])

```

```

{

    header("Location: ../login.php");
}
?>
<?php
    include('config.php');
    $id_kegiatan=$_GET['id'];
    $qr=mysqli_query($koneksi,"select * from `kegiatan`
where id='$id_kegiatan'");
    $line=mysqli_fetch_array($qr);
    $hari = $line['hari'];

    if($hari=='Sunday')
    {
        $qry = $koneksi->query("SELECT * from `users`");
        while($row = $qry->fetch_assoc()):
            foreach($row as $k=> $v){
                $row[$k] = trim(stripslashes($v));
            }
            $id = $row['id'];
            $before = $row['cek_kunjungan'];
            $after = $before + 1;

            $minus = "UPDATE users SET cek_kunjungan='$after'
where id='$id'";
            mysqli_query($koneksi, $minus);

            echo"<script>window.open('absensi.php?id=$id_kegiatan','_se
lf')</script>";
            endwhile;
        }
        else
        {

            echo"<script>window.open('absensi.php?id=$id_kegiatan','_se

```

```
lf')</script>";  
    }  
  
?>
```

4.6 Proses Penjadwalan

Penjadwalan Pelayanan dimulai dengan penambahan bidang pelayanan (Segmen Program 4.17) dan penambahan pelayanan jemaat (Segmen Program 4.18). Setelah kedua data didapatkan, maka data dapat disatukan dengan menambahkan penatalayan (Segmen Program 4.19)

Segmen Program 4.17 Add Bidang Pelayanan

```
<?php  
session_start();  
  
if(!$SESSION['username'])  
{  
  
    header("Location: ../login.php");  
}  
?  
  
<?php  
include("config.php");  
if(isset($_POST['add_bidang']))  
{  
    $nama = $_POST['nama'];  
    $descr = $_POST['desc'];  
    $query = "INSERT INTO bidang_pelayanan(nama,descr)  
VALUES('$nama','$descr')";  
    $sql = mysqli_query($koneksi, $query);  
    if($sql)  
    {  
        header("location: add_bidang.php");  
    }  
}
```

```

    }
    else
    {
        echo "Maaf, Terjadi kesalahan saat mencoba untuk
menyimpan data ke database.";
        echo "<br><a href='add_bidang.php'>Kembali Ke
Form</a>";
    }
}
?>

```

Segmen Program 4.18 Add Bidang Member

```

<?php
session_start();

if(!$_SESSION['username'])
{

    header("Location: ../login.php");
}
?>
<?php
include("config.php");
$id = $_GET['id'];
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    // Check if the "options" array is set in the POST data
    if (isset($_POST["id"])) {
        // Loop through the selected options
        foreach ($_POST["id"] as $selectedOption) {
            $query = "INSERT INTO penatalayan(id_jemaat,
id_bidang) VALUES('$id','$selectedOption')";
            $sql = mysqli_query($koneksi, $query);
        }
        $query="UPDATE users SET cek_penatalayan=1 where

```

```

id='$id'';

        mysqli_query($koneksi, $query);

echo"<script>window.open('view_member.php','_self')</script>";

        exit();
    } else {
        // Handle case when no options are selected
        echo "No options selected.";
    }
}
?>

```

Segmen Program 4.19 Add Penatalayan

```

<?php
session_start();

if(!$_SESSION['username'])
{

    header("Location: ../login.php");
}
?>

<?php
include("config.php");
if(isset($_POST['add_jadwal']))
{
    $id = $_GET['id']; //24
    $query=mysqli_query($koneksi,"select * from kegiatan WHERE
id='$id'");
    $line=mysqli_fetch_array($query);
    $waktu=$line['waktu'];
    $id_bidang = $_POST['bidang']; //23
    $id_jemaat = $_POST['id_member']; //30
    $check_input="select * from jadwal WHERE
id_jemaat='$id_jemaat' AND id_bidang='$id_bidang' AND

```

```

id_kegiatan='$id';
$run_query1=mysqli_query($koneksi,$check_input);
if(mysqli_num_rows($run_query1)>0)
{
    echo "<script>alert('Sudah Pernah Input, Please try
another one!')</script>";

echo"<script>window.open('input_jadwal.php?id=$rows['id']',
'_self')</script>";
    exit();
}
$check_input2="select * from jadwal WHERE waktu='$waktu'
AND id_jemaat='$id_jemaat'";
$run_query2=mysqli_query($koneksi,$check_input2);
if(mysqli_num_rows($run_query2)>0)
{
    echo "<script>alert('Jadwal Bertabrak!')</script>";

echo"<script>window.open('input_jadwal.php?id=$rows['id']',
'_self')</script>";
    exit();
}
$query="insert into jadwal (id_kegiatan, waktu, id_bidang,
id_jemaat) VALUE ('$id', '$waktu', '$id_bidang',
'$id_jemaat')";
mysqli_query($koneksi, $query);
echo "<script>alert('Added!')</script>";
echo"<script>window.open('view_absen.php','_self')</script>
";
exit();
}
?>

```

4.7 Proses Logout

Logout dilakukan dengan mengklik tombol di pojok kanan atas, dan proses logout dapat dilihat pada Segmen Program 4.20

Segmen Program 4.20 Proses Logout

```
<?php  
  
session_start();  
session_destroy();  
header("Location: ../backend/index.php");  
?>
```