

LAMPIRAN

1. Script Registrasi Akun User

\$stmt = \$conn-

```
<?php
include 'db_config.php';
$message = "";

if
($_SERVER['REQUEST_M
ETHOD'] === 'POST') {
    // Ambil data dari form
    $nama = $_POST['nama'];
    $email = $_POST['email'];
    $nomor_pelanggan =
$_POST['nomor_pelanggan'];
    $penggunaan_kwh =
$_POST['penggunaan_kwh'];
    $password =
$_POST['password'];

    // Hash password untuk
keamanan
    $password_hash =
password_hash($password,
PASSWORD_BCRYPT);

    // Simpan ke database
    $query = "INSERT INTO
pengguna (nama, email,
nomor_pelanggan,
penggunaan_kwh,
password_hash) VALUES (?,
?, ?, ?, ?)";
```

```

>prepare($query);
    if ($stmt->execute([$nama,
$email, $nomor_pelanggan,
$penggunaan_kwh,
$password_hash])) {
        $message = 'Pendaftaran
berhasil. Silakan login.';
    } else {
        $message = 'Gagal
mendaftar. Email atau nomor
pelanggan mungkin sudah
digunakan.';
    }
}
?>

```

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport"
content="width=device-
width, initial-scale=1.0">
    <title>Register</title>
    <link
href="https://fonts.googleapis
.com/css2?family=Poppins:w
ght@400;600&display=swap
" rel="stylesheet">
    <link
href="https://maxcdn.bootstra

```

```

pcdn.com/bootstrap/4.5.2/css/
bootstrap.min.css"
rel="stylesheet">
<style>
    body {
        display: flex;
        justify-content:
center;
        align-items: center;
        height: 100vh;
        margin: 0;
        font-family: 'Poppins',
sans-serif;
        background: linear-
gradient(135deg, #f093fb,
#f5576c);
        color: #ffffff;
    }
    .register-container {
        width: 100%;
        max-width: 500px;
        padding: 20px;
        background: #ffffff;
        border-radius: 10px;
        box-shadow: 0 4px
6px rgba(0, 0, 0, 0.1);
        color: #333333;
    }
    .title {
        font-size: 24px;
        font-weight: 600;

```

```

        margin-bottom: 20px;
        text-align: center;
        color: #f5576c;
    }
    .btn-primary {
        width: 100%;
        background: linear-
gradient(90deg, #f093fb,
#f5576c);
        border: none;
        color: #ffffff;
    }
    .btn-primary:hover {
        background: linear-
gradient(90deg, #f5576c,
#f093fb);
        color: #ffffff;
    }
    .btn-link {
        display: block;
        margin-top: 10px;
        text-align: center;
        color: #f5576c;
    }
    .btn-link:hover {
        color: #f093fb;
    }
    .form-control {
        border: 1px solid
#ddd;
        border-radius: 8px;
        padding: 10px;
    }
    .form-control:focus {
        border-color:
#f5576c;
        box-shadow: 0 0 5px
rgba(245, 87, 108, 0.5);
    }
    .alert {
        text-align: left;
        color: #ffffff;
        background-color:
#17a2b8;
        border: none;
    }
</style>
</head>
<body>
    <div class="register-
container">
        <div
class="title">Aplikasi
Perhitungan Tagihan
Listrik</div>
        <h5 class="text-center
mb-4">Register</h5>
        <?php if
(!empty($message)): ?>
            <div class="alert
alert-info"><?=  


```

```

htmlspecialchars($message)
?></div>
    <?php endif; ?>
    <form method="post"
action="">
        <div class="form-
group">
            <label
for="nama">Nama</label>
            <input type="text"
id="nama" name="nama"
class="form-control"
placeholder="Masukkan
nama lengkap" required>
        </div>
        <div class="form-
group">
            <label
for="email">Email</label>
            <input
type="email" id="email"
name="email" class="form-
control"
placeholder="Masukkan
email" required>
        </div>
        <div class="form-
group">
            <label
for="nomor_pelanggan">No
mor Pelanggan</label>

```

```

        <input type="text"
id="nomor_pelanggan"
name="nomor_pelanggan"
class="form-control"
placeholder="Masukkan
nomor pelanggan" required>
    </div>
    <div class="form-
group">
        <label
for="penggunaan_kwh">Pen
ggunaan KWH
Terakhir</label>
        <input
type="number"
id="penggunaan_kwh"
name="penggunaan_kwh"
class="form-control"
placeholder="Masukkan
penggunaan KWH terakhir"
required>
    </div>
    <div class="form-
group">
        <label
for="password">Password</l
abel>
        <input
type="password"
id="password"
name="password"

```

```

class="form-control"
placeholder="Masukkan
password" required>
    </div>
    <button
type="submit" class="btn
btn-
primary">Register</button>
    <a href="login.php"
class="btn btn-link">Sudah
punya akun? Login di
sini.</a>
    </form>
</div>

<script
src="https://ajax.googleapis.c
om/ajax/libs/jquery/3.5.1/jqu
ery.min.js"></script>
<script
src="https://maxcdn.bootstra
pcdn.com/bootstrap/4.5.2/js/b
ootstrap.min.js"></script>
</body>
</html>

```

2. Script Login User

```

<?php
include 'db_config.php';
session_start();
$message = "

```

```

if
($_SERVER['REQUEST_ME
THOD'] === 'POST') {
    $emailOrNoPelanggan =
$_POST['email'];
    $password =
$_POST['password'];

    // Cek apakah login sebagai
admin
    if ($emailOrNoPelanggan
=== 'admin@gmail.com' &&
$password === 'admin') {
        $_SESSION['admin'] =
true;
        header('Location:
admin_dashboard.php');
        exit();
    }

    // Login pengguna biasa
    if
(filter_var($emailOrNoPelangg
an,
FILTER_VALIDATE_EMAIL
)) {
        $query = "SELECT id,
nama, password_hash FROM
pengguna WHERE email = ?";
    } else {

```

```

        $query = "SELECT id,
nama, password_hash FROM
pengguna WHERE
nomor_pelanggan = ?";
    }

    $stmt = $conn-
>prepare($query);
    $stmt-
>execute([$emailOrNoPelangg
an]);
    $user = $stmt->fetch();

    if ($user &&
password_verify($password,
$user['password_hash'])) {
        $_SESSION['user_id'] =
$user['id'];
        $_SESSION['nama'] =
$user['nama'];
        header('Location:
dashboard.php');
        exit();
    } else {
        $message = 'Email atau
nomor pelanggan atau
password salah.';
    }
}
?>

```

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport"
content="width=device-width,
initial-scale=1.0">
    <title>Login</title>
    <link
href="https://fonts.googleapis.c
om/css2?family=Poppins:wght
@400;600&display=swap"
rel="stylesheet">
    <link
href="https://maxcdn.bootstrapcdn
.com/bootstrap/4.5.2/css/bo
otstrap.min.css"
rel="stylesheet">
    <style>
        body {
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            margin: 0;
            font-family: 'Poppins',
sans-serif;
            background: linear-
gradient(135deg, #6a11cb,
#2575fc);
            color: #ffffff;

```

```

    }
    .login-container {
        width: 100%;
        max-width: 400px;
        padding: 20px;
        background: #ffffff;
        border-radius: 10px;
        box-shadow: 0 4px 6px
        rgba(0, 0, 0, 0.1);
        text-align: center;
        color: #333333;
    }
    .title {
        font-size: 24px;
        font-weight: 600;
        margin-bottom: 10px;
        color: #6a11cb;
    }
    .marquee {
        font-size: 18px;
        font-weight: 600;
        color: #6a11cb;
        margin-bottom: 20px;
        overflow: hidden;
        white-space: nowrap;
    }
    .marquee span {
        display: inline-block;
        padding-left: 100%;
        animation: scroll 10s
        linear infinite;
    }
    }
    @keyframes scroll {
        0% {
            transform:
            translateX(100%);
        }
        100% {
            transform:
            translateX(-100%);
        }
    }
    .btn-primary {
        width: 100%;
        background: linear-
        gradient(90deg, #6a11cb,
        #2575fc);
        border: none;
        color: #ffffff;
    }
    .btn-primary:hover {
        background: linear-
        gradient(90deg, #2575fc,
        #6a11cb);
        color: #ffffff;
    }
    .btn-link {
        display: block;
        margin-top: 10px;
        text-align: center;
        color: #6a11cb;
    }

```



```

.btn-link:hover {
    color: #2575fc;
}
.form-control {
    border: 1px solid #ddd;
    border-radius: 8px;
    padding: 10px;
}
.form-control:focus {
    border-color: #6a11cb;
    box-shadow: 0 0 5px
rgba(106, 17, 203, 0.5);
}
.alert {
    text-align: left;
    color: #ffffff;
    background-color:
#f03d3e;
    border: none;
}
</style>
</head>
<body>
    <div class="login-
container">
        <div
class="title"><h4>Aplikasi
Perhitungan Tagihan
Listrik</h4></div>
        <div
class="marquee"><span>Sela

```

```

mat Datang di Menu
Login</span></div>
        <?php if
(empty($message)): ?>
            <div class="alert alert-
danger"><?=
htmlspecialchars($message)
?></div>
        <?php endif; ?>
        <form method="post"
action="">
            <div class="form-
group">
                <label
for="email">Email atau
Nomor Pelanggan</label>
                <input type="text"
id="email" name="email"
class="form-control"
placeholder="Masukkan Email
atau Nomor Pelanggan"
required>
            </div>
            <div class="form-
group">
                <label
for="password">Password</la
bel>
                <input
type="password"
id="password"

```

```

name="password"
class="form-control"
placeholder="Masukkan
Password" required>
    </div>
    <button type="submit"
class="btn btn-
primary">Login</button>
    <a href="register.php"
class="btn btn-link">Belum
punya akun? Daftar di sini</a>
    </form>
</div>

<script
src="https://ajax.googleapis.co
m/ajax/libs/jquery/3.5.1/jquery.
min.js"></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
</body>
</html>

```

3. Script Proses Login

```

<?php
session_start();
if
(isset($_SESSION['user_id']))
{

```

```

    header('Location:
dashboard.php'); // Jika sudah
login, langsung ke dashboard
    exit();
} else {
    header('Location:
login.php'); // Jika belum login,
arahkan ke login
    exit();
}
?>

```

4. Script Halaman Utama

```

<?php
session_start();

// Cek apakah user sudah login
if
(!isset($_SESSION['user_id']))
{
    header('Location:
login.php');
    exit();
}

// Ambil nama pengguna dari
session
$nama = $_SESSION['nama'];
// Nama pengguna yang
disimpan saat login
?>

```

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport"
content="width=device-width,
initial-scale=1.0">
  <title>Main Menu</title>
  <link
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bo
otstrap.min.css"
rel="stylesheet">
  <style>
    body {
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      background-color:
#f8f9fa;
      margin: 0;
    }
    .container {
      text-align: center;
      border: 1px solid
#dee2e6;
      border-radius: 10px;
      padding: 20px;
      width: 90%;
      max-width: 400px;
      background-color:
#ffffff;
    }
    .btn {
      margin: 10px;
      width: calc(100% -
20px);
    }

    /* CSS untuk efek teks
berjalan */
    .marquee {
      white-space: nowrap;
      overflow: hidden;
      box-sizing: border-box;
    }
    .marquee span {
      display: inline-block;
      padding-left: 100%;
      animation: marquee 10s
linear infinite;
    }

    /* Animasi teks berjalan
*/
    @keyframes marquee {
      0% {
        transform:
translateX(0);
      }
      100% {

```

```

        transform:
        translateX(-100%);
    }
}
</style>
</head>
<body>
    <div class="container">
        <h3 class="mb-
4">Aplikasi Perhitungan
Tagihan Listrik Menggunakan
OCR</h3>
        <button class="btn btn-
primary"
onclick="window.location.href
='kwh.php'">Test Real
Time</button>
        <button class="btn btn-
danger"
onclick="window.location.href
='logout.php'">Keluar</button
>

        <!-- Teks berjalan di
bawah tombol Keluar -->
        <div class="marquee mt-
4">
            <span>Hai, <?=
htmlspecialchars($nama) ?>
selamat datang!</span>
        </div>

```

```

</div>

<script
src="https://ajax.googleapis.co
m/ajax/libs/jquery/3.5.1/jquery.
min.js"></script>
<script
src="https://maxcdn.bootstrapcdn.
com/bootstrap/4.5.2/js/bootst
rap.min.js"></script>
</body>
</html>

```

5. Script Tampilan Pilihan

Watt

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-
8">
    <meta name="viewport"
content="width=device-
width, initial-scale=1.0">
    <title>Main
Menu</title>
    <link
href="https://maxcdn.boot
strapcdn.com/bootstrap/4.5
.2/css/bootstrap.min.css"
rel="stylesheet">
    <style>
        body {

```

```

        display: flex;
        justify-content:
center;
        align-items: center;
        height: 100vh;
        background-color:
#f8f9fa;
        margin: 0;
    }
    .container {
        text-align: center;
        border: 1px solid
#dee2e6;
        border-radius:
10px;
        padding: 20px;
        width: 90%;
        max-width: 400px;
        background-color:
#ffffff;
    }
    .btn {
        margin: 10px;
        width: calc(100% -
20px);
    }
    .btn2 {
        margin: 5px;
        width: calc(50% -
20px);
        color: black;
    }
}
</style>
</head>
<body>
    <div class="container">
        <h3 class="mb-
4">Pilih Penggunaan
Watt</h3>
        <button class="btn
btn-primary"
onclick="window.location.
href='450.php'">450
WATT</button>
        <button class="btn
btn-primary" id="btn-
900">900
WATT</button>
        <button class="btn
btn-primary"
onclick="window.location.
href='1200.php'">1200
WATT</button>
        <button class="btn
btn-primary"
onclick="window.location.
href='2200.php'">2200
WATT</button>
        <br><br><br>
        <button class="btn2
btn-primary"
onclick="window.location.

```

```

href='dashboard.php'">Ke
mbali</button>

</div>

<!-- Modal untuk
Pilihan Subsidi/Non-
Subsidi -->

<div class="modal fade"
id="modal-900"
tabindex="-1"
role="dialog" aria-
labelledby="modal-
900Label" aria-
hidden="true">

    <div class="modal-
dialog modal-dialog-
centered"
role="document">

        <div class="modal-
content">

            <div
class="modal-header">

                <h5
class="modal-title"
id="modal-
900Label">Pilih
Pengguna</h5>

                <button
type="button"
class="close" data-

```

```

dismiss="modal" aria-
label="Close">

                <span aria-
hidden="true">&times;</s
pan>

            </button>

        </div>

    <div
class="modal-body">

        <p>Silakan
pilih apakah pengguna
subsidi atau non-
subsidi:</p>

        <button
class="btn btn-success
btn-block"
onclick="window.location.
href='900.php'">Pengguna
Subsidi</button>

        <button
class="btn btn-danger btn-
block"
onclick="window.location.
href='900ns.php'">Penggu
na Non-Subsidi</button>

    </div>

</div>

</div>

</div>

```

```

<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.
1/jquery.min.js"></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.
2/js/bootstrap.min.js"></sc
ript>
<script>
    // Event untuk
menampilkan modal saat
tombol 900 WATT diklik

document.getElementById
('btn-
900').addEventListener('cli
ck', function () {
    $('#modal-
900').modal('show');
});
</script>
</body>
</html>

```

6. Script Pengambilan Jumlah kWh user

```

<?php
session_start(); // Pastikan
session digunakan untuk

```

menyimpan ID user yang sedang login

```

// Cek apakah pengguna sudah
login dan memiliki ID
if
(isset($_SESSION['user_id'])) {
    echo json_encode(["error" =>
"User not logged in"]);
    exit;
}

```

// Mendapatkan ID pengguna dari session

```

$user_id =
$_SESSION['user_id'];

```

// Koneksi ke database

```

$servername = "localhost"; //
Ganti dengan host database
Anda
$username = "sisc1873_root"; //
Username untuk koneksi
database

```

```

$password = "Rauf123@"; //

```

Password untuk koneksi database

```

$dbname =
"sisc1873_db_listrik"; // Nama
database Anda

```

```

$conn = new
mysqli($servername, $username,
$password, $dbname);

// Cek koneksi
if ($conn->connect_error) {
    die("Connection failed: " .
$conn->connect_error);
}

// Query untuk mengambil
penggunaan_kwh berdasarkan id
pengguna
$sql = "SELECT
penggunaan_kwh FROM
pengguna WHERE id = ?";
$stmt = $conn->prepare($sql);
$stmt->bind_param("i",
$user_id); // Mengikat parameter
id
$stmt->execute();
$stmt-
>bind_result($penggunaan_kwh
);
$stmt->fetch();

// Menutup koneksi
$stmt->close();
$conn->close();

```

```

// Mengembalikan nilai
penggunaan_kwh dalam format
JSON
if ($penggunaan_kwh !== null)
{
    echo
    json_encode(["penggunaan_kwh
" => $penggunaan_kwh]);
} else {
    echo json_encode(["error" =>
    "Data penggunaan_kwh tidak
    ditemukan untuk user_id
    $user_id"]);
}
?>

```

7. Script 450 Watt

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport"
content="width=device-width,
initial-scale=1.0">
    <title>Deteksi Listrik dan
Perhitungan Tagihan</title>
    <style>
        body {
            font-family: 'Arial',
sans-serif;
            background-color:
            #f4f4f9;

```



```

        color: #333;
        text-align: center;
        padding: 30px;
        margin: 0;
    }

    h1 {
        color: #2d6a4f;
        font-size: 32px;
        margin-bottom: 20px;
    }

    /* Tambahkan style untuk
teks berjalan */

    .scrolling-text {
        font-size: 18px;
        color: #ff6600;
        white-space: nowrap;
        overflow: hidden;
        position: relative;
        margin-top: 20px;
        background-color:
#fff3e6;
        padding: 10px;
        border-radius: 5px;
        box-shadow: 0px 4px
6px rgba(0, 0, 0, 0.1);
    }

    .scrolling-text p {
        position: absolute;
        animation: scroll 10s
linear infinite;
    }

    @keyframes scroll {
        0% {
            left: 100%;
        }
        100% {
            left: -100%;
        }
    }

    /* Perbaiki styling video
untuk mengikuti lebar
kontainer */

    video {
        width: 100%; /*
Menetapkan lebar video
menjadi 100% dari kontainer */
        height: 50px; /*
Mengatur tinggi video menjadi
50px */
        object-fit: cover; /*
Menjaga proporsi gambar */
        border: 5px solid
#4CAF50;
        border-radius: 10px;
        box-shadow: 0px 8px
16px rgba(0, 0, 0, 0.1);
    }

```

```

canvas {
    display: none;
}

#result {
    margin-top: 20px;
    font-size: 20px;
    color: #333;
    font-weight: bold;
}

button {
    background-color:
#4CAF50;
    color: white;
    padding: 15px 32px;
    font-size: 18px;
    margin: 10px;
    border: none;
    border-radius: 5px;
    cursor: pointer;
    transition: background-
color 0.3s ease;
}

button:hover {
    background-color:
#45a049;
}

.formatted-price {
    font-size: 24px;
    font-weight: bold;
    color: #2d6a4f;
    margin-top: 20px;
}

#savedResults {
    margin-top: 30px;
    font-size: 18px;
}

.saved-result-item {
    background-color:
#e8f5e9;
    margin: 5px 0;
    padding: 10px;
    border-radius: 5px;
    border: 1px solid
#2d6a4f;
}

#save {
    background-color:
#FF5733;
}

#save:hover {
    background-color:
#e84c1b;
}

```

```

/* Styling untuk tombol
kembali */
#back {
    background-color:
#f44336;
}

#back:hover {
    background-color:
#e53935;
}
</style>
</head>
<body>

    <h1>TEST
    REALTIME</h1>

    <!-- Tambahkan teks
    berjalan tepat di bawah judul --
    >
    <div class="scrolling-text">
        <p>Silakan Hitung
        Tagihan Listrik Anda</p>
    </div>

    <!-- Video untuk menangkap
    gambar -->
    <video id="video" autoplay
    playsinline></video>

```

```

<canvas id="canvas"
width="640"
height="480"></canvas>

<div>
    <button id="snap">Ambil
    Gambar</button>
    <button
    id="calculate">Hitung Tagihan
    Listrik</button>
    <button
    id="save">Simpan Hasil
    OCR</button>
    <!-- Tombol Kembali -->
    <button
    id="back">Kembali</button>
</div>

<div id="result"></div>

<div
id="savedResults"></div>

<script>
    const video =
    document.getElementById('vid
    eo');
    const savedResultsDiv =
    document.getElementById('sav
    edResults');
    let savedResults = [];

```

```

// Set constraints untuk
kamera
const videoConstraints =
{
  video: {
    facingMode:
"environment",
    width: { ideal: 1280
},
    height: { ideal: 720 }
  }
};

// Mengakses kamera saat
halaman dimuat
window.onload =
function() {
  if
(navigator.mediaDevices &&
navigator.mediaDevices.getUs
erMedia) {

navigator.mediaDevices.getUs
erMedia(videoConstraints).the
n(stream => {
  video.srcObject =
stream;

  video.play();
  focusCamera();
}).catch(err => {

```

```

alert("Tidak dapat
mengakses kamera: " +
err.message);
});
} else {
  alert("Kamera tidak
didukung di browser ini.");
}
};

function focusCamera() {
  // Menetapkan fokus
otomatis pada kamera
  if (video.srcObject &&
video.srcObject.getVideoTrack
s().length > 0) {
    const track =
video.srcObject.getVideoTrack
s()[0];
    const capabilities =
track.getCapabilities();
    if
(capabilities.focusMode) {

track.applyConstraints({
  advanced: [{
focusMode: 'continuous' }]
});
  }
}
}

```

```
// Mengambil gambar dari
video dan mengirimnya untuk
proses OCR
```

```
const canvas =
document.getElementById('can
vas');
const context =
canvas.getContext('2d');
const snapButton =
document.getElementById('sna
p');
const calculateButton =
document.getElementById('cal
culate');
const saveButton =
document.getElementById('sav
e');
const backButton =
document.getElementById('bac
k'); // Tombol Kembali
const resultDiv =
document.getElementById('res
ult');

snapButton.addEventListener('
click', () => {

context.drawImage(video, 0, 0,
640, 480);
```

```
const dataURL =
canvas.toDataURL('image/png'
);

fetch('process_realtime.php', {
method: 'POST',
headers: {
'Content-Type':
'application/json'
},
body:
JSON.stringify({ image:
dataURL })
})
.then(response =>
response.json())
.then(data => {
const kWh =
data.kWh;
resultDiv.textContent
= `Hasil OCR: ${kWh} kWh`;
savedResults.push({
kWh });

updateSavedResults();
})
.catch(error => {
console.error('Error:',
error);
```

```

        resultDiv.textContent
= 'OCR processing error: ' +
error.message;
    });
});

calculateButton.addEventListener('click', () => {
    if (savedResults.length
>= 1) {
        const kWh =
savedResults[0].kWh;

        // Ambil nilai
penggunaan_kwh dari server
berdasarkan id pengguna

        fetch('get_penggunaan_kwh.php')
            .then(response =>
response.json())
            .then(data => {
                if (data.error) {

                    alert(data.error);

                    return;
                }
            })
    }
});

```

```

const
penggunaanKwh =
data.penggunaan_kwh;

const totalKWh
= kWh - penggunaanKwh;

const
tarifPerKwh = 352; // Tarif per
KWh yang baru

const
totalTagihan = totalKWh *
tarifPerKwh;

const
formattedTagihan =
formatCurrency(totalTagihan);

resultDiv.innerHTML = `
    <div
class="formatted-price">Total
Tagihan Listrik:
${formattedTagihan}</div>
`;

.catch(error => {

    console.error('Error:', error);

    resultDiv.textContent =
'Terjadi kesalahan saat

```

```

mengambil data penggunaan
KWh.';
        });
    } else {
        resultDiv.textContent
= 'Ambil gambar terlebih
dahulu untuk menghitung
tagihan listrik.';
    }
});

saveButton.addEventListener('
click', () => {
    if (savedResults.length
    >= 1) {
        const kWh =
savedResults[0].kWh;

        // Simpan hasil OCR
ke dalam database

fetch('save_penggunaan_kwh.p
hp', {
        method: 'POST',
        headers: {
            'Content-Type':
'application/json'
        },
        body:
JSON.stringify({ kWh: kWh })
    })
        .then(response =>
response.json())
        .then(data => {
            if (data.success) {
                alert("Hasil
OCR berhasil disimpan!");
            } else {
                alert("Terjadi
kesalahan saat menyimpan
hasil OCR.");
            }
        })
        .catch(error => {
            console.error('Error:', error);
            alert('Terjadi
kesalahan saat menyimpan
hasil OCR.');
```

// Menambahkan
fungsionalitas untuk tombol
kembali

```

        });
            alert('Ambil gambar
terlebih dahulu sebelum
menyimpan.');
```

```

        backButton.addEventListener('
click', () => {
            window.location.href =
'kwh.php'; // Mengarahkan ke
halaman kwh.php
        });

        function
updateSavedResults() {

savedResultsDiv.innerHTML =
'<h3>Hasil OCR yang
Disimpan:</h3>';

savedResults.forEach((result,
index) => {

savedResultsDiv.innerHTML
+= `<div class="saved-result-
item">OCR ${index + 1}:
${result.kWh} kWh</div>`;
        });
    }

    function
formatCurrency(amount) {
        return new
Intl.NumberFormat('id-ID', {
style: 'currency', currency:
'IDR' }).format(amount);

```

```

    }
</script>
</body>
</html>

8. Script 900 Watt (Subsidi)
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport"
content="width=device-width,
initial-scale=1.0">
    <title>Deteksi Listrik dan
Perhitungan Tagihan</title>
    <style>
        body {
            font-family: 'Arial',
sans-serif;
            background-color:
#f4f4f9;
            color: #333;
            text-align: center;
            padding: 30px;
            margin: 0;
        }

        h1 {
            color: #2d6a4f;
            font-size: 32px;
            margin-bottom: 20px;
        }

```



```

    }

    /* Tambahkan style untuk
teks berjalan */
    .scrolling-text {
        font-size: 18px;
        color: #ff6600;
        white-space: nowrap;
        overflow: hidden;
        position: relative;
        margin-top: 20px;
        background-color:
#fff3e6;
        padding: 10px;
        border-radius: 5px;
        box-shadow: 0px 4px
6px rgba(0, 0, 0, 0.1);
    }

    .scrolling-text p {
        position: absolute;
        animation: scroll 10s
linear infinite;
    }

    @keyframes scroll {
        0% {
            left: 100%;
        }
        100% {
            left: -100%;
        }
    }

    }

    /* Perbaiki styling video
untuk mengikuti lebar
kontainer */
    video {
        width: 100%; /*
Menetapkan lebar video
menjadi 100% dari kontainer */
        height: 50px; /*
Mengatur tinggi video menjadi
50px */
        object-fit: cover; /*
Menjaga proporsi gambar */
        border: 5px solid
#4CAF50;
        border-radius: 10px;
        box-shadow: 0px 8px
16px rgba(0, 0, 0, 0.1);
    }

    canvas {
        display: none;
    }

    #result {
        margin-top: 20px;
        font-size: 20px;
        color: #333;
        font-weight: bold;
    }

```

```

button {
    background-color:
#4CAF50;
    color: white;
    padding: 15px 32px;
    font-size: 18px;
    margin: 10px;
    border: none;
    border-radius: 5px;
    cursor: pointer;
    transition: background-
color 0.3s ease;
}

button:hover {
    background-color:
#45a049;
}

.formatted-price {
    font-size: 24px;
    font-weight: bold;
    color: #2d6a4f;
    margin-top: 20px;
}

#savedResults {
    margin-top: 30px;
    font-size: 18px;
}

.saved-result-item {
    background-color:
#e8f5e9;
    margin: 5px 0;
    padding: 10px;
    border-radius: 5px;
    border: 1px solid
#2d6a4f;
}

#save {
    background-color:
#FF5733;
}

#save:hover {
    background-color:
#e84c1b;
}

/* Styling untuk tombol
kembali */
#back {
    background-color:
#f44336;
}

#back:hover {
    background-color:
#e53935;
}

```

```

    }
  </style>
</head>
<body>

  <h1>TEST
  REALTIME</h1>

  <!-- Tambahkan teks
  berjalan tepat di bawah judul --
  >
  <div class="scrolling-text">
    <p>Silakan Hitung
    Tagihan Listrik Anda</p>
  </div>

  <!-- Video untuk menangkap
  gambar -->
  <video id="video" autoplay
  playsinline></video>
  <canvas id="canvas"
  width="640"
  height="480"></canvas>

  <div>
    <button id="snap">Ambil
    Gambar</button>
    <button
    id="calculate">Hitung Tagihan
    Listrik</button>

```

```

    <button
    id="save">Simpan Hasil
    OCR</button>
    <!-- Tombol Kembali -->
    <button
    id="back">Kembali</button>
  </div>

  <div id="result"></div>

  <div
  id="savedResults"></div>

  <script>
    const video =
    document.getElementById('vid
    eo');
    const savedResultsDiv =
    document.getElementById('sav
    edResults');
    let savedResults = [];

    // Set constraints untuk
    kamera
    const videoConstraints =
    {
      video: {
        facingMode:
        "environment",
        width: { ideal: 1280
        },

```

```

        height: { ideal: 720 }
    }
};

// Mengakses kamera saat
halaman dimuat
window.onload =
function() {
    if
(navigator.mediaDevices &&
navigator.mediaDevices.getUs
erMedia) {

navigator.mediaDevices.getUs
erMedia(videoConstraints).the
n(stream => {
        video.srcObject =
stream;

        video.play();
        focusCamera();
    }).catch(err => {
        alert("Tidak dapat
mengakses kamera: " +
err.message);
    });
    } else {
        alert("Kamera tidak
didukung di browser ini.");
    }
};

```

```

function focusCamera() {
    // Menetapkan fokus
otomatis pada kamera
    if (video.srcObject &&
video.srcObject.getVideoTrack
s().length > 0) {
        const track =
video.srcObject.getVideoTrack
s()[0];

        const capabilities =
track.getCapabilities();
        if
(capabilities.focusMode) {

track.applyConstraints({
            advanced: [{
focusMode: 'continuous' }]
        });
    }
}

// Mengambil gambar dari
video dan mengirimnya untuk
proses OCR
    const canvas =
document.getElementById('can
vas');
    const context =
canvas.getContext('2d');

```

```

    const snapButton =
document.getElementById('snap');
    const calculateButton =
document.getElementById('calculate');
    const saveButton =
document.getElementById('save');
    const backButton =
document.getElementById('back'); // Tombol Kembali
    const resultDiv =
document.getElementById('result');

snapButton.addEventListener('click', () => {

context.drawImage(video, 0, 0,
640, 480);
    const dataURL =
canvas.toDataURL('image/png');

fetch('process_realtime.php', {
    method: 'POST',
    headers: {

```

```

'Content-Type':
'application/json'
    },
    body:
JSON.stringify({ image:
dataURL })
    })
    .then(response =>
response.json())
    .then(data => {
        const kWh =
data.kWh;
        resultDiv.textContent
= `Hasil OCR: ${kWh} kWh`;
        savedResults.push({
kWh });

updateSavedResults();
    })
    .catch(error => {
        console.error('Error:',
error);
        resultDiv.textContent
= 'OCR processing error: ' +
error.message;
    });
});

calculateButton.addEventListener('click', () => {

```

```

        if (savedResults.length
    >= 1) {
        const kWh =
    savedResults[0].kWh;

        // Ambil nilai
    penggunaan_kwh dari server
    berdasarkan id pengguna

    fetch('get_penggunaan_kwh.ph
    p')

        .then(response =>
    response.json())
        .then(data => {
            if (data.error) {

    alert(data.error);

            return;
        }

        const
    penggunaanKwh =
    data.penggunaan_kwh;

        const totalKWh
    = kWh - penggunaanKwh;

        const
    tarifPerKwh = 605; // Tarif per
    KWh yang baru

        const

    totalTagihan = totalKWh *
    tarifPerKwh;

```

```

        const
    formattedTagihan =
    formatCurrency(totalTagihan);

    resultDiv.innerHTML = `
        <div
    class="formatted-price">Total
    Tagihan Listrik:
    ${formattedTagihan}</div>
        `;
    })
    .catch(error => {

    console.error('Error:', error);

    resultDiv.textContent =
    'Terjadi kesalahan saat
    mengambil data penggunaan
    KWh.';

    });

    } else {
        resultDiv.textContent
    = 'Ambil gambar terlebih
    dahulu untuk menghitung
    tagihan listrik.';
    }

    });

```

```

    }

    saveButton.addEventListener('
    click', () => {
        if (savedResults.length
        >= 1) {
            const kWh =
            savedResults[0].kWh;

            // Simpan hasil OCR
            ke dalam database

            fetch('save_penggunaan_kwh.p
            hp', {
                method: 'POST',
                headers: {
                    'Content-Type':
                    'application/json'
                },
                body:
                JSON.stringify({ kWh: kWh })
            })
                .then(response =>
                response.json())
                .then(data => {
                    if (data.success) {
                        alert("Hasil
                        OCR berhasil disimpan!");
                    } else {
                        alert("Terjadi
                        kesalahan saat menyimpan
                        hasil OCR.");
                    }
                })
                .catch(error => {
                    console.error('Error:', error);
                    alert('Terjadi
                    kesalahan saat menyimpan
                    hasil OCR.');
```

// Menambahkan fungsionalitas untuk tombol kembali

```

                });

                backButton.addEventListener('
                click', () => {
                    window.location.href =
                    'kwh.php'; // Mengarahkan ke
                    halaman kwh.php
                });

                function
                updateSavedResults() {
                    savedResultsDiv.innerHTML =

```

```
'<h3>Hasil OCR yang
Disimpan:</h3>';
```

```
savedResults.forEach((result,
index) => {
```

```
savedResultsDiv.innerHTML
+= `<div class="saved-result-
item">OCR ${index + 1}:
${result.kWh} kWh</div>`;
    });
}
```

```
function
formatCurrency(amount) {
    return new
Intl.NumberFormat('id-ID', {
style: 'currency', currency:
'IDR' }).format(amount);
}
```

```
</script>
```

```
</body>
```

```
</html>
```

9. Script 900 Watt Non Subsidi

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport"
```

```
content="width=device-width,
initial-scale=1.0">
```

```
<title>Deteksi Listrik dan
Perhitungan Tagihan</title>
```

```
<style>
```

```
body {
    font-family: 'Arial',
sans-serif;
```

```
background-color:
#f4f4f9;
```

```
color: #333;
```

```
text-align: center;
```

```
padding: 30px;
```

```
margin: 0;
```

```
}
```

```
h1 {
```

```
color: #2d6a4f;
```

```
font-size: 32px;
```

```
margin-bottom: 20px;
```

```
}
```

```
/* Tambahkan style untuk
teks berjalan */
```

```
.scrolling-text {
```

```
font-size: 18px;
```

```
color: #ff6600;
```

```
white-space: nowrap;
```

```
overflow: hidden;
```

```
position: relative;
```

```
margin-top: 20px;
```

```
background-color:
#fff3e6;
```



```

padding: 10px;
border-radius: 5px;
box-shadow: 0px 4px
6px rgba(0, 0, 0, 0.1);
}

.scrolling-text p {
position: absolute;
animation: scroll 10s
linear infinite;
}

@keyframes scroll {
0% {
left: 100%;
}
100% {
left: -100%;
}
}

/* Perbaiki styling video
untuk mengikuti lebar
kontainer */
video {
width: 100%; /*
Menetapkan lebar video
menjadi 100% dari kontainer */
height: 50px; /*
Mengatur tinggi video menjadi
50px */

```

```

object-fit: cover; /*
Menjaga proporsi gambar */
border: 5px solid
#4CAF50;
border-radius: 10px;
box-shadow: 0px 8px
16px rgba(0, 0, 0, 0.1);
}

canvas {
display: none;
}

#result {
margin-top: 20px;
font-size: 20px;
color: #333;
font-weight: bold;
}

button {
background-color:
#4CAF50;
color: white;
padding: 15px 32px;
font-size: 18px;
margin: 10px;
border: none;
border-radius: 5px;
cursor: pointer;

```

```

        transition: background-
color 0.3s ease;
    }

```

```

    button:hover {
        background-color:
#45a049;
    }

```

```

.formatted-price {
    font-size: 24px;
    font-weight: bold;
    color: #2d6a4f;
    margin-top: 20px;
}

```

```

#savedResults {
    margin-top: 30px;
    font-size: 18px;
}

```

```

.saved-result-item {
    background-color:
#e8f5e9;
    margin: 5px 0;
    padding: 10px;
    border-radius: 5px;
    border: 1px solid
#2d6a4f;
}

```

```

#save {
    background-color:
#FF5733;
}

```

```

#save:hover {
    background-color:
#e84c1b;
}

```

```

/* Styling untuk tombol
kembali */
#back {
    background-color:
#f44336;
}

```

```

#back:hover {
    background-color:
#e53935;
}

```

```

</style>

```

```

</head>

```

```

<body>

```

```

    <h1>TEST
    REALTIME</h1>

```

```

    <!-- Tambahkan teks
    berjalan tepat di bawah judul --
>

```

```

<div class="scrolling-text">
  <p>Silakan Hitung
  Tagihan Listrik Anda</p>
</div>

```

```

<!-- Video untuk menangkap
gambar -->

```

```

  <video id="video" autoplay
  playsinline></video>

```

```

  <canvas id="canvas"
  width="640"
  height="480"></canvas>

```

```

<div>
  <button id="snap">Ambil
  Gambar</button>
  <button
  id="calculate">Hitung Tagihan
  Listrik</button>

```

```

  <button
  id="save">Simpan Hasil
  OCR</button>

```

```

  <!-- Tombol Kembali -->
  <button
  id="back">Kembali</button>
</div>

```

```

<div id="result"></div>

```

```

<div
  id="savedResults"></div>

```

```

<script>

```

```

  const video =
  document.getElementById('vid
  eo');

```

```

  const savedResultsDiv =
  document.getElementById('sav
  edResults');

```

```

  let savedResults = [];

```

```

  // Set constraints untuk
  kamera

```

```

  const videoConstraints =
  {
    video: {
      facingMode:
      "environment",
      width: { ideal: 1280
    },
    height: { ideal: 720 }
  }
  };

```

```

  // Mengakses kamera saat
  halaman dimuat

```

```

  window.onload =
  function() {
    if
    (navigator.mediaDevices &&
    navigator.mediaDevices.getUs
    erMedia) {

```

```

navigator.mediaDevices.getUserMedia(videoConstraints).then(
  stream => {
    video.srcObject =
      stream;
    video.play();
    focusCamera();
  }).catch(err => {
    alert("Tidak dapat
mengakses kamera: " +
err.message);
  });
} else {
  alert("Kamera tidak
didukung di browser ini.");
}
};

function focusCamera() {
  // Menetapkan fokus
  otomatis pada kamera
  if (video.srcObject &&
video.srcObject.getVideoTracks().length > 0) {
    const track =
video.srcObject.getVideoTracks()[0];
    const capabilities =
track.getCapabilities();

```

```

    if
(capabilities.focusMode) {
      track.applyConstraints({
        advanced: [{
          focusMode: 'continuous' }]
      });
    }
  }
}

// Mengambil gambar dari
video dan mengirimnya untuk
proses OCR
const canvas =
document.getElementById('can
vas');
const context =
canvas.getContext('2d');
const snapButton =
document.getElementById('sna
p');
const calculateButton =
document.getElementById('cal
culate');
const saveButton =
document.getElementById('sav
e');
const backButton =
document.getElementById('bac
k'); // Tombol Kembali

```

```
const resultDiv =
document.getElementById('result');

```

```
snapButton.addEventListener('
click', () => {

```

```
context.drawImage(video, 0, 0,
640, 480);

```

```
const dataURL =
canvas.toDataURL('image/png'
);

```

```
fetch('process_realtime.php', {
method: 'POST',
headers: {
'Content-Type':

```

```
'application/json'
},
body:
JSON.stringify({ image:
dataURL })
})

```

```
.then(response =>
response.json())
.then(data => {
const kWh =
data.kWh;

```

```
resultDiv.textContent
= `Hasil OCR: ${kWh} kWh`;
savedResults.push({
kWh });

```

```
updateSavedResults();
})
.catch(error => {
console.error('Error:',
error);
resultDiv.textContent
= 'OCR processing error: ' +
error.message;
});
});

```

```
calculateButton.addEventListe
ner('click', () => {
if (savedResults.length
>= 1) {

```

```
const kWh =
savedResults[0].kWh;

```

```
// Ambil nilai
penggunaan_kwh dari server
berdasarkan id pengguna

```

```
fetch('get_penggunaan_kwh.ph
p')

```

```

        .then(response =>
response.json())
        .then(data => {
            if (data.error) {
                alert(data.error);
                return;
            }

            const
penggunaanKwh =
data.penggunaan_kwh;
            const totalKWh
= kWh - penggunaanKwh;
            const
tarifPerKwh = 1352; // Tarif
per KWh yang baru
            const
totalTagihan = totalKWh *
tarifPerKwh;

            const
formattedTagihan =
formatCurrency(totalTagihan);

resultDiv.innerHTML = `
                <div
class="formatted-price">Total
Tagihan Listrik:
                ${formattedTagihan}</div>
                `;
            })
        .catch(error => {
            console.error('Error:', error);

            resultDiv.textContent =
'Terjadi kesalahan saat
mengambil data penggunaan
KWh.';

        });
    } else {
        resultDiv.textContent
= 'Ambil gambar terlebih
dahulu untuk menghitung
tagihan listrik.';
    }
});

saveButton.addEventListener('
click', () => {
    if (savedResults.length
>= 1) {
        const kWh =
savedResults[0].kWh;

        // Simpan hasil OCR
ke dalam database

```

```

fetch('save_penggunaan_kwh.php', {
    method: 'POST',
    headers: {
        'Content-Type':
'application/json'
    },
    body:
JSON.stringify({ kWh: kWh })
})
.then(response =>
response.json())
    .then(data => {
        if (data.success) {
            alert("Hasil
OCR berhasil disimpan!");
        } else {
            alert("Terjadi
kesalahan saat menyimpan
hasil OCR.");
        }
    })
    .catch(error => {

console.error('Error:', error);
        alert("Terjadi
kesalahan saat menyimpan
hasil OCR.");
    });
    } else {
        alert('Ambil gambar
terlebih dahulu sebelum
menyimpan.');
```

```

    }
});

// Menambahkan
fungsionalitas untuk tombol
kembali

backButton.addEventListener('
click', () => {
    window.location.href =
'kwh.php'; // Mengarahkan ke
halaman kwh.php
});

function
updateSavedResults() {

savedResultsDiv.innerHTML =
'<h3>Hasil OCR yang
Disimpan:</h3>';

savedResults.forEach((result,
index) => {

savedResultsDiv.innerHTML
+= `<div class="saved-result-
item">OCR ${index + 1}:
${result.kWh} kWh</div>`;

```

```

    });
}

function
formatCurrency(amount) {
    return new
Intl.NumberFormat('id-ID', {
style: 'currency', currency:
'IDR' }).format(amount);
}
</script>
</body>
</html>

```

10. Script 1300 dan 2200Watt

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport"
content="width=device-width,
initial-scale=1.0">
    <title>Deteksi Listrik dan
Perhitungan Tagihan</title>
<style>
    body {
        font-family: 'Arial',
sans-serif;
        background-color:
#f4f4f9;
        color: #333;
        text-align: center;

```

```

padding: 30px;
margin: 0;
}

h1 {
    color: #2d6a4f;
    font-size: 32px;
    margin-bottom: 20px;
}

/* Tambahkan style untuk
teks berjalan */
.scrolling-text {
    font-size: 18px;
    color: #ff6600;
    white-space: nowrap;
    overflow: hidden;
    position: relative;
    margin-top: 20px;
    background-color:
#fff3e6;
    padding: 10px;
    border-radius: 5px;
    box-shadow: 0px 4px
6px rgba(0, 0, 0, 0.1);
}

.scrolling-text p {
    position: absolute;
    animation: scroll 10s
linear infinite;

```



```

    }

    @keyframes scroll {
        0% {
            left: 100%;
        }
        100% {
            left: -100%;
        }
    }

    /* Perbaiki styling video
    untuk mengikuti lebar
    kontainer */
    video {
        width: 100%; /*
    Menetapkan lebar video
    menjadi 100% dari kontainer */
        height: 50px; /*
    Mengatur tinggi video menjadi
    50px */
        object-fit: cover; /*
    Menjaga proporsi gambar */
        border: 5px solid
    #4CAF50;
        border-radius: 10px;
        box-shadow: 0px 8px
    16px rgba(0, 0, 0, 0.1);
    }

    canvas {
        display: none;
    }

    #result {
        margin-top: 20px;
        font-size: 20px;
        color: #333;
        font-weight: bold;
    }

    button {
        background-color:
    #4CAF50;
        color: white;
        padding: 15px 32px;
        font-size: 18px;
        margin: 10px;
        border: none;
        border-radius: 5px;
        cursor: pointer;
        transition: background-
    color 0.3s ease;
    }

    button:hover {
        background-color:
    #45a049;
    }

    .formatted-price {
        font-size: 24px;
    }

```

```

        font-weight: bold;
        color: #2d6a4f;
        margin-top: 20px;
    }

    #savedResults {
        margin-top: 30px;
        font-size: 18px;
    }

    .saved-result-item {
        background-color:
#e8f5e9;
        margin: 5px 0;
        padding: 10px;
        border-radius: 5px;
        border: 1px solid
#2d6a4f;
    }

    #save {
        background-color:
#FF5733;
    }

    #save:hover {
        background-color:
#e84c1b;
    }

        /* Styling untuk tombol
kembali */
        #back {
            background-color:
#f44336;
        }

        #back:hover {
            background-color:
#e53935;
        }
    </style>
</head>
<body>

    <h1>TEST
REALTIME</h1>

    <!-- Tambahkan teks
berjalan tepat di bawah judul --
>

    <div class="scrolling-text">
        <p>Silakan Hitung
Tagihan Listrik Anda</p>
    </div>

    <!-- Video untuk menangkap
gambar -->
    <video id="video" autoplay
playsinline></video>

```

```

        <canvas id="canvas"
width="640"
height="480"></canvas>

        <div>
            <button id="snap">Ambil
Gambar</button>
            <button
id="calculate">Hitung Tagihan
Listrik</button>
            <button
id="save">Simpan Hasil
OCR</button>
            <!-- Tombol Kembali -->
            <button
id="back">Kembali</button>
        </div>

        <div id="result"></div>

        <div
id="savedResults"></div>

        <script>
            const video =
document.getElementById('vid
eo');
            const savedResultsDiv =
document.getElementById('sav
edResults');
            let savedResults = [];

            // Set constraints untuk
kamera
            const videoConstraints =
{
                video: {
                    facingMode:
"environment",
                    width: { ideal: 1280
},
                    height: { ideal: 720 }
                }
            };

            // Mengakses kamera saat
halaman dimuat
            window.onload =
function() {
                if
(navigator.mediaDevices &&
navigator.mediaDevices.getUs
erMedia) {

                    navigator.mediaDevices.getUs
erMedia(videoConstraints).the
n(stream => {
                        video.srcObject =
stream;

                        video.play();
                        focusCamera();
                    }).catch(err => {

```

```

        alert("Tidak dapat
mengakses kamera: " +
err.message);
    });
    } else {
        alert("Kamera tidak
didukung di browser ini.");
    }
};

function focusCamera() {
    // Menetapkan fokus
otomatis pada kamera
    if (video.srcObject &&
video.srcObject.getVideoTrack
s().length > 0) {
        const track =
video.srcObject.getVideoTrack
s()[0];
        const capabilities =
track.getCapabilities();
        if
(capabilities.focusMode) {
            track.applyConstraints({
                advanced: [{
                    focusMode: 'continuous' }]
            });
        }
    }
}

```

```

        // Mengambil gambar dari
video dan mengirimnya untuk
proses OCR
        const canvas =
document.getElementById('can
vas');
        const context =
canvas.getContext('2d');
        const snapButton =
document.getElementById('sna
p');
        const calculateButton =
document.getElementById('cal
culate');
        const saveButton =
document.getElementById('sav
e');
        const backButton =
document.getElementById('bac
k'); // Tombol Kembali
        const resultDiv =
document.getElementById('res
ult');

snapButton.addEventListener('
click', () => {

context.drawImage(video, 0, 0,
640, 480);

```

```

        const dataURL =
        canvas.toDataURL('image/png'
    );

    fetch('process_realtime.php', {
        method: 'POST',
        headers: {
            'Content-Type':
            'application/json'
        },
        body:
        JSON.stringify({ image:
        dataURL })
    })
    .then(response =>
    response.json())
    .then(data => {
        const kWh =
        data.kWh;

        resultDiv.textContent
        = `Hasil OCR: ${kWh} kWh`;
        savedResults.push({
        kWh });

        updateSavedResults();
    })
    .catch(error => {
        console.error('Error:',
        error);

        resultDiv.textContent
        = 'OCR processing error: ' +
        error.message;
    });
});

calculateButton.addEventListener('click', () => {
    if (savedResults.length
    >= 1) {
        const kWh =
        savedResults[0].kWh;

        // Ambil nilai
        penggunaan_kwh dari server
        berdasarkan id pengguna

        fetch('get_penggunaan_kwh.ph
        p')
        .then(response =>
        response.json())
        .then(data => {
            if (data.error) {

                alert(data.error);

                return;
            }
        })
    }
});

```

```

        const
penggunaanKwh =
data.penggunaan_kwh;

        const totalKWh
= kWh - penggunaanKwh;

        const
tarifPerKwh = 1445; // Tarif
per KWh yang baru

        const
totalTagihan = totalKWh *
tarifPerKwh;

        const
formattedTagihan =
formatCurrency(totalTagihan);

resultDiv.innerHTML = `
        <div
class="formatted-price">Total
Tagihan Listrik:
${formattedTagihan}</div>
        `;
    })
    .catch(error => {

console.error('Error:', error);

resultDiv.textContent =
'Terjadi kesalahan saat

```

```

mengambil data penggunaan
KWh.';

    });

    } else {

        resultDiv.textContent
= 'Ambil gambar terlebih
dahulu untuk menghitung
tagihan listrik.';

    }

    });

saveButton.addEventListener('
click', () => {

        if (savedResults.length
>= 1) {

            const kWh =
savedResults[0].kWh;

            // Simpan hasil OCR
ke dalam database

            fetch('save_penggunaan_kwh.p
hp', {

                method: 'POST',
                headers: {

                    'Content-Type':
'application/json'

                },
                body:
JSON.stringify({ kWh: kWh })

```

```

    })
    .then(response =>
response.json())
    .then(data => {
        if (data.success) {
            alert("Hasil
OCR berhasil disimpan!");
        } else {
            alert("Terjadi
kesalahan saat menyimpan
hasil OCR.");
        }
    })
    .catch(error => {

console.error('Error:', error);
        alert('Terjadi
kesalahan saat menyimpan
hasil OCR.');
```

```

    });

    // Menambahkan
    fungsionalitas untuk tombol
    kembali

```

```

        backButton.addEventListener('
click', () => {
            window.location.href =
'kwh.php'; // Mengarahkan ke
halaman kwh.php
        });

```

```

        function
updateSavedResults() {

savedResultsDiv.innerHTML =
'<h3>Hasil OCR yang
Disimpan:</h3>';

```

```

        savedResults.forEach((result,
index) => {

savedResultsDiv.innerHTML
+= `<div class="saved-result-
item">OCR ${index + 1}:
${result.kWh} kWh</div>`;

        });
    }

```

```

        function
formatCurrency(amount) {
            return new
Intl.NumberFormat('id-ID', {
style: 'currency', currency:
'IDR' }).format(amount);

```

```
    }  
  </script>  
</body>  
</html>
```