google_Oauth.php – keep this code in this file

```php
<?php
// ===== DEBUG (temporary) =====
ini_set('display_errors', 1);
ini_set('display_startup_errors', 1);
error_reporting(E_ALL);

// ====== LOAD .ENV ======
$envPath = __DIR__ . '/../.env';  // from OAuth2.0/ go up to Itsmypage/

if (file_exists($envPath)) {
    $lines = file($envPath, FILE_IGNORE_NEW_LINES | FILE_SKIP_EMPTY_LINES);
    foreach ($lines as $line) {
        if (str_starts_with(trim($line), '#')) continue;
        if (!str_contains($line, '=')) continue;

        [$name, $value] = explode('=', $line, 2);
        putenv(trim($name) . '=' . trim($value));
    }
}

$CLIENT_ID = getenv('GOOGLE_CLIENT_ID');
$CLIENT_SECRET = getenv('GOOGLE_CLIENT_SECRET');
$REDIRECT_URI = getenv('GOOGLE_REDIRECT_URI');

if (!$CLIENT_ID || !$CLIENT_SECRET || !$REDIRECT_URI) {
    die("❌ Missing OAuth environment variables in .env file");
}

// ================== OAUTH FLOW ==================

if (!isset($_GET['code'])) {
    // Step 1: Redirect user to Google for login
    $auth_url = "https://accounts.google.com/o/oauth2/v2/auth?" .
http_build_query([
        'client_id' => $CLIENT_ID,
        'redirect_uri' => $REDIRECT_URI,
```

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        'response_type' => 'code',
        'scope' => 'openid email profile',
        'prompt' => 'select_account'
    ]);

    header("Location: " . $auth_url);
    exit;
}


// Step 2: Google redirected back with code
$code = $_GET['code'];


// Step 3: Exchange code for access token
$token_url = "https://oauth2.googleapis.com/token";

$post_fields = [
    'code' => $code,
    'client_id' => $CLIENT_ID,
    'client_secret' => $CLIENT_SECRET,
    'redirect_uri' => $REDIRECT_URI,
    'grant_type' => 'authorization_code'
];

$ch = curl_init();
curl_setopt($ch, CURLOPT_URL, $token_url);
curl_setopt($ch, CURLOPT_POST, true);
curl_setopt($ch, CURLOPT_POSTFIELDS, http_build_query($post_fields));
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);

$response = curl_exec($ch);
curl_close($ch);

$token_data = json_decode($response, true);

if (!isset($token_data['access_token'])) {
    echo "<pre>";
    print_r($token_data);
    die("❌ Failed to get access token");
}
```

```php
$access_token = $token_data['access_token'];

// Step 4: Get user info
$userinfo_url = "https://www.googleapis.com/oauth2/v2/userinfo";

$ch = curl_init();
curl_setopt($ch, CURLOPT_URL, $userinfo_url);
curl_setopt($ch, CURLOPT_HTTPHEADER, [
    "Authorization: Bearer " . $access_token
]);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);

$userinfo = curl_exec($ch);
curl_close($ch);

$user = json_decode($userinfo, true);

// Step 5: Show result
echo "<h2>Login Successful ✅</h2>";
echo "<p><strong>Name:</strong> " . htmlspecialchars($user['name'] ?? '') .
"</p>";
echo "<p><strong>Email:</strong> " . htmlspecialchars($user['email'] ?? '') .
"</p>";

if (!empty($user['picture'])) {
    echo "<img src='" . htmlspecialchars($user['picture']) . "' width='120'>";
}

echo "<br><br><a href='index.html'>Go back to Home</a>";
```

Keep this in index.html

```html
<!DOCTYPE html>
<html>
<head>
```

```html
    <title>Google OAuth Demo</title>
</head>
<body>
    <h2>Welcome</h2>
    <p>Click below to login with Google</p>

    <a href="google_Oauth.php">
        <button>Login with Google</button>
    </a>
</body>
</html>
```

Keep GCLIENTID ,CSECRET , AND REDIRECT URI IN .ENV FIL