TapnGo API Documentation

Dokumentasi Teknis API TapnGo
TapnGo Technical API Documentation

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BAGIAN I — BAHASA INDONESIA

1. Pengantar

API ini digunakan untuk mengambil (membaca) data laporan transaksi parkir dan data member. Semua endpoint bersifat baca saja (read-only), sehingga data tidak dapat diubah atau dihapus melalui API.

2. Informasi Umum

Item	Keterangan
Base URL	`http://192.168.0.1/api/`
Method	GET
Format response	JSON (UTF-8)
Autentikasi	API Key melalui header X-API-Key
Jaringan	Hanya dapat diakses dari jaringan lokal yang sama dengan server

Header Request

Header	Wajib	Nilai
X-API-Key	Ya	Kunci API yang diberikan oleh pengelola sistem
Accept	Tidak	application/json

Jaga kerahasiaan API Key dan jangan membagikannya kepada pihak yang tidak berkepentingan.

Parameter Halaman (Paging)

Berlaku untuk semua endpoint. Bila data banyak, hasil dibagi per halaman.

Parameter	Default	Keterangan
page	1	Nomor halaman
limit	50	Jumlah data per halaman (maksimal 500)

Setiap response menyertakan page, limit, total_data, dan total_page untuk membantu pengambilan halaman berikutnya.

3. Endpoint Laporan

Mengambil daftar transaksi parkir, diurutkan dari yang terbaru.

```
GET http://192.168.0.1/api/laporan.php
```

Parameter Tanggal

Gunakan untuk mengambil transaksi pada rentang tanggal masuk tertentu. Jika tidak diisi, semua data ditampilkan.

Parameter	Keterangan	Contoh
tgl_dari	Tanggal masuk mulai (format YYYY-MM-DD)	2026-09-26
tgl_sampai	Tanggal masuk sampai (format YYYY-MM-DD)	2026-11-05

Keterangan Data yang Dikembalikan

No	Keterangan
1	No Transaksi
2	Pos Masuk
3	Tipe pembayaran
4	Nama bank / jenis member
5	UID
6	No Kartu
7	Jenis kendaraan
8	Tanggal dan jam masuk (YYYY-MM-DD HH:MM:SS)
9	Tanggal dan jam keluar; null bila kendaraan belum keluar
10	Durasi parkir
11	Total biaya

Contoh Request

```
GET /api/laporan.php?tgl_dari=2026-09-26&tgl_sampai=2026-11-05&page=1&limit=20
Host: 192.168.0.1
X-API-Key: API_KEY_ANDA
```

Contoh Response (200)


```
{
  "status": true,
  "page": 1,
  "limit": 20,
  "total_data": 3,
  "total_page": 1,
  "data": [
    {
      "No Transaksi": "202609261001",
      "Pos Masuk": "POS IN 1",
      "Tipe Pembayaran": "QRIS",
      "Nama Bank / Jenis Member": "DK1598ABW",
      "UID": "",
      "No Kartu": "",
      "Jenis Kendaraan": "MOBIL",
      "Tanggal Jam Masuk": "2026-09-26 07:44:13",
      "Tanggal Jam Keluar": null,
      "Durasi Parkir": "1",
      "Total": "1"
    },
    {
      "No Transaksi": "202611051001",
      "Pos Masuk": "POS IN 2",
      "Tipe Pembayaran": "EMONEY",
      "Nama Bank / Jenis Member": "BNI",
      "UID": "A00C6474",
      "No Kartu": "7546150004442983",
      "Jenis Kendaraan": "MOTOR",
      "Tanggal Jam Masuk": "2026-11-05 17:14:22",
      "Tanggal Jam Keluar": "2026-11-05 17:15:43",
      "Durasi Parkir": "0",
      "Total": "1"
    },
    {
      "No Transaksi": "20260926081238",
      "Pos Masuk": "POS IN 1",
      "Tipe Pembayaran": "MEMBER",
      "Nama Bank / Jenis Member": "MEMBER",
      "UID": "DK1598ABW",
      "No Kartu": "",
      "Jenis Kendaraan": null,
      "Tanggal Jam Masuk": "2026-09-26 08:12:38",
      "Tanggal Jam Keluar": null,
      "Durasi Parkir": null,
      "Total": "0"
    }
  ]
}
```


4. Endpoint Member

Mengambil daftar member parkir.

```
GET http://192.168.0.1/api/member.php
```

Keterangan Data yang Dikembalikan

No	Keterangan
1	No. kendaraan
2	UID
3	Nama member
4	Alamat
5	Tanggal awal masa berlaku (YYYY-MM-DD)
6	Tanggal akhir masa berlaku (YYYY-MM-DD)
7	Jenis kendaraan
8	Jenis member

Contoh Request

```
GET /api/member.php?page=1&limit=20
Host: 192.168.0.1
X-API-Key: API_KEY_ANDA
```

Contoh Response (200)

```
{
  "status": true,
  "page": 1,
  "limit": 20,
  "total_data": 1,
  "total_page": 1,
  "data": [
    {
      "No. Kendaraan": "DK1598ABW",
      "UID": "A00C6474111",
      "Nama Member": "HENDRY",
      "Alamat": "CIMAHI",
      "Tgl Awal Masa Berlaku": "2025-01-25",
      "Tgl Akhir Masa Berlaku": "2030-01-28",
      "Jenis Kendaraan": "MOTOR",
      "Jenis Member": null
    }
  ]
}
```

5. Kode Respons

Kode	Arti	Penyebab umum
200	Berhasil	Request valid
400	Bad Request	Format parameter salah, misalnya tanggal tidak sesuai YYYY-MM-DD
401	Unauthorized	API Key salah atau tidak dikirim
405	Method Not Allowed	Menggunakan method selain GET
500	Server Error	Gangguan pada server atau database

Contoh Response Error

```
{
  "status": false,
  "message": "API key tidak valid atau tidak ada (header X-API-Key)"
}
```

Catatan Penting

- Jika tidak ada data yang cocok, response tetap berstatus 200 dengan data berupa array kosong.
- Nilai angka, misalnya total biaya, dikirim sebagai teks (string).
- Field yang tidak memiliki nilai dikirim sebagai null atau teks kosong.

6. Contoh Pemanggilan

cURL — Data Laporan

```
curl -G -H "X-API-Key: API_KEY_ANDA" \
  -d "tgl_dari=2026-09-26" -d "tgl_sampai=2026-11-05" \
  -d "page=1" -d "limit=20" \
  "http://192.168.0.1/api/laporan.php"
```

cURL — Data Member

```
curl -H "X-API-Key: API_KEY_ANDA" \
  "http://192.168.0.1/api/member.php?page=1&limit=20"
```

Python (requests)

```
import requests

BASE = "http://192.168.0.1/api/"
HEADERS = {"X-API-Key": "API_KEY_ANDA"}

# Data laporan / Transaction report
r = requests.get(BASE + "laporan.php", headers=HEADERS, params={
    "tgl_dari": "2026-09-26", "tgl_sampai": "2026-11-05",
    "page": 1, "limit": 20})
print(r.json())

# Data member / Member data
r = requests.get(BASE + "member.php", headers=HEADERS,
                 params={"page": 1, "limit": 20})
print(r.json())
```

C++ (libcurl)

```
#include <iostream>
#include <string>
#include <curl/curl.h>

static size_t tulis(char* p, size_t s, size_t n, void* out) {
    ((std::string*)out)->append(p, s * n);
    return s * n;
}

std::string ambil(const std::string& url) {
    std::string hasil;
    CURL* c = curl_easy_init();
    struct curl_slist* h = NULL;
    h = curl_slist_append(h, "X-API-Key: API_KEY_ANDA");
    curl_easy_setopt(c, CURLOPT_URL, url.c_str());
    curl_easy_setopt(c, CURLOPT_HTTPHEADER, h);
    curl_easy_setopt(c, CURLOPT_WRITEFUNCTION, tulis);
    curl_easy_setopt(c, CURLOPT_WRITEDATA, &hasil);
    curl_easy_perform(c);
    curl_slist_free_all(h);
    curl_easy_cleanup(c);
    return hasil;
}

int main() {
    std::cout << ambil("http://192.168.0.1/api/laporan.php"
        "?tgl_dari=2026-09-26&tgl_sampai=2026-11-05"
        "&page=1&limit=20") << std::endl;
    std::cout << ambil("http://192.168.0.1/api/member.php"
        "?page=1&limit=20") << std::endl;
    return 0;
}
```

Visual Basic (VB.NET)

```
Imports System.Net.Http

Module Program
    Async Function Ambil(url As String) As Task(Of String)
        Using client As New HttpClient()
            client.DefaultRequestHeaders.Add("X-API-Key", "API_KEY_ANDA")
            Return Await client.GetStringAsync(url)
        End Using
    End Function

    Sub Main()
        Dim laporan = Ambil("http://192.168.0.1/api/laporan.php" &
            "?tgl_dari=2026-09-26&tgl_sampai=2026-11-05" &
            "&page=1&limit=20").Result
        Dim member = Ambil("http://192.168.0.1/api/member.php" &
            "?page=1&limit=20").Result
        Console.WriteLine(laporan)
        Console.WriteLine(member)
    End Sub
End Module
```

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Ikuti langkah berikut untuk setiap endpoint (laporan atau member).

No	Langkah
1	Klik New lalu pilih HTTP Request.
2	Pilih method GET.
3	Isi alamat, misalnya http://192.168.0.1/api/laporan.php atau http://192.168.0.1/api/member.php.
4	Buka tab Params, lalu isi parameter bila diperlukan. Untuk laporan: tgl_dari, tgl_sampai. Untuk keduanya: page, limit.
5	Buka tab Headers, tambahkan Key X-API-Key dengan Value API_KEY_ANDA.
6	Klik Send. Hasil JSON tampil di bagian Body pada panel response.

PART II — ENGLISH

1. Introduction

This API is used to retrieve (read) parking transaction reports and parking member data. All endpoints are read-only; records cannot be modified or deleted through the API.

2. General Information

Item	Description
Base URL	`http://192.168.0.1/api/`
Method	GET
Response format	JSON (UTF-8)
Authentication	API key supplied through the X-API-Key header
Network	Accessible only from the same local network as the server

Request Headers

Header	Required	Value
X-API-Key	Yes	API key supplied by the system administrator
Accept	No	application/json

Keep the API key confidential. Do not share it with unauthorized parties.

Pagination Parameters

Pagination applies to every endpoint. Large result sets are returned in pages.

Parameter	Default	Description
page	1	Page number
limit	50	Number of records per page (maximum 500)

Each response contains page, limit, total_data, and total_page to support fetching subsequent pages.

3. Transaction Report Endpoint

Retrieves a list of parking transactions, ordered from newest to oldest.

```
GET http://192.168.0.1/api/laporan.php
```

Date Parameters

Filter transactions by entry-date range. If no date parameters are provided, all records are returned.

Parameter	Description	Example
tgl_dari	Starting entry date (YYYY-MM-DD)	2026-09-26
tgl_sampai	Ending entry date (YYYY-MM-DD)	2026-11-05

Returned Data Fields

No	Description
1	Transaction number
2	Entry station
3	Payment type
4	Bank name / member type
5	UID
6	Card number
7	Vehicle type
8	Entry date and time (YYYY-MM-DD HH:MM:SS)
9	Exit date and time; null if vehicle has not exited
10	Parking duration
11	Total charge

The JSON property names remain in Indonesian exactly as returned by the API.

Example Request

```
GET /api/laporan.php?tgl_dari=2026-09-26&tgl_sampai=2026-11-05&page=1&limit=20
Host: 192.168.0.1
X-API-Key: API_KEY_ANDA
```

Example Response (200)


```
{
  "status": true,
  "page": 1,
  "limit": 20,
  "total_data": 3,
  "total_page": 1,
  "data": [
    {
      "No Transaksi": "202609261001",
      "Pos Masuk": "POS IN 1",
      "Tipe Pembayaran": "QRIS",
      "Nama Bank / Jenis Member": "DK1598ABW",
      "UID": "",
      "No Kartu": "",
      "Jenis Kendaraan": "MOBIL",
      "Tanggal Jam Masuk": "2026-09-26 07:44:13",
      "Tanggal Jam Keluar": null,
      "Durasi Parkir": "1",
      "Total": "1"
    },
    {
      "No Transaksi": "202611051001",
      "Pos Masuk": "POS IN 2",
      "Tipe Pembayaran": "EMONEY",
      "Nama Bank / Jenis Member": "BNI",
      "UID": "A00C6474",
      "No Kartu": "7546150004442983",
      "Jenis Kendaraan": "MOTOR",
      "Tanggal Jam Masuk": "2026-11-05 17:14:22",
      "Tanggal Jam Keluar": "2026-11-05 17:15:43",
      "Durasi Parkir": "0",
      "Total": "1"
    },
    {
      "No Transaksi": "20260926081238",
      "Pos Masuk": "POS IN 1",
      "Tipe Pembayaran": "MEMBER",
      "Nama Bank / Jenis Member": "MEMBER",
      "UID": "DK1598ABW",
      "No Kartu": "",
      "Jenis Kendaraan": null,
      "Tanggal Jam Masuk": "2026-09-26 08:12:38",
      "Tanggal Jam Keluar": null,
      "Durasi Parkir": null,
      "Total": "0"
    }
  ]
}
```


4. Member Endpoint

Retrieves the parking member list.

```
GET http://192.168.0.1/api/member.php
```

Returned Data Fields

No	Description
1	Vehicle registration number
2	UID
3	Member name
4	Address
5	Membership start date (YYYY-MM-DD)
6	Membership expiration date (YYYY-MM-DD)
7	Vehicle type
8	Member type

The JSON property names remain in Indonesian exactly as returned by the API.

Example Request

```
GET /api/member.php?page=1&limit=20
Host: 192.168.0.1
X-API-Key: API_KEY_ANDA
```

Example Response (200)

```
{
  "status": true,
  "page": 1,
  "limit": 20,
  "total_data": 1,
  "total_page": 1,
  "data": [
    {
      "No. Kendaraan": "DK1598ABW",
      "UID": "A00C6474111",
      "Nama Member": "HENDRY",
      "Alamat": "CIMAHI",
      "Tgl Awal Masa Berlaku": "2025-01-25",
      "Tgl Akhir Masa Berlaku": "2030-01-28",
      "Jenis Kendaraan": "MOTOR",
      "Jenis Member": null
    }
  ]
}
```

5. HTTP Response Codes

Code	Meaning	Common cause
200	Success	Valid request
400	Bad Request	Invalid parameter format, such as a date not formatted as YYYY-MM-DD
401	Unauthorized	API key missing or incorrect
405	Method Not Allowed	Using a method other than GET
500	Server Error	Server or database failure

Example Error Response

```
{
  "status": false,
  "message": "API key tidak valid atau tidak ada (header X-API-Key)"
}
```

The error message above is reproduced exactly as supplied by the API example in the source document.

Important Notes

- If no records match, the response still returns HTTP 200 with an empty data array.
- Numeric values, such as total charges, are returned as strings.
- Missing field values are returned as null or an empty string.

6. Integration Examples

cURL — Transaction Report

```
curl -G -H "X-API-Key: API_KEY_ANDA" \
  -d "tgl_dari=2026-09-26" -d "tgl_sampai=2026-11-05" \
  -d "page=1" -d "limit=20" \
  "http://192.168.0.1/api/laporan.php"
```

cURL — Member Data

```
curl -H "X-API-Key: API_KEY_ANDA" \
  "http://192.168.0.1/api/member.php?page=1&limit=20"
```

Python (requests)

```
import requests

BASE = "http://192.168.0.1/api/"
HEADERS = {"X-API-Key": "API_KEY_ANDA"}

# Data laporan / Transaction report
r = requests.get(BASE + "laporan.php", headers=HEADERS, params={
    "tgl_dari": "2026-09-26", "tgl_sampai": "2026-11-05",
    "page": 1, "limit": 20})
print(r.json())

# Data member / Member data
r = requests.get(BASE + "member.php", headers=HEADERS,
                 params={"page": 1, "limit": 20})
print(r.json())
```

C++ (libcurl)

```
#include <iostream>
#include <string>
#include <curl/curl.h>

static size_t tulis(char* p, size_t s, size_t n, void* out) {
    ((std::string*)out)->append(p, s * n);
    return s * n;
}

std::string ambil(const std::string& url) {
    std::string hasil;
    CURL* c = curl_easy_init();
    struct curl_slist* h = NULL;
    h = curl_slist_append(h, "X-API-Key: API_KEY_ANDA");
    curl_easy_setopt(c, CURLOPT_URL, url.c_str());
    curl_easy_setopt(c, CURLOPT_HTTPHEADER, h);
    curl_easy_setopt(c, CURLOPT_WRITEFUNCTION, tulis);
    curl_easy_setopt(c, CURLOPT_WRITEDATA, &hasil);
    curl_easy_perform(c);
    curl_slist_free_all(h);
    curl_easy_cleanup(c);
    return hasil;
}

int main() {
    std::cout << ambil("http://192.168.0.1/api/laporan.php"
        "?tgl_dari=2026-09-26&tgl_sampai=2026-11-05"
        "&page=1&limit=20") << std::endl;
    std::cout << ambil("http://192.168.0.1/api/member.php"
        "?page=1&limit=20") << std::endl;
    return 0;
}
```

Visual Basic (VB.NET)

```
Imports System.Net.Http

Module Program
    Async Function Ambil(url As String) As Task(Of String)
        Using client As New HttpClient()
            client.DefaultRequestHeaders.Add("X-API-Key", "API_KEY_ANDA")
            Return Await client.GetStringAsync(url)
        End Using
    End Function

    Sub Main()
        Dim laporan = Ambil("http://192.168.0.1/api/laporan.php" &
            "?tgl_dari=2026-09-26&tgl_sampai=2026-11-05" &
            "&page=1&limit=20").Result
        Dim member = Ambil("http://192.168.0.1/api/member.php" &
            "?page=1&limit=20").Result
        Console.WriteLine(laporan)
        Console.WriteLine(member)
    End Sub
End Module
```

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Follow these steps for either endpoint (transaction report or member data).

No	Step
1	Click New, then choose HTTP Request.
2	Select the GET method.
3	Enter a URL, such as http://192.168.0.1/api/laporan.php or http://192.168.0.1/api/member.php.
4	On the Params tab, add parameters if needed: tgl_dari and tgl_sampai for reports; page and limit for both endpoints.
5	On the Headers tab, add the key X-API-Key with the value API_KEY_ANDA.
6	Click Send. The JSON result appears in the Body section of the response panel.