

Hifisys Enterprise REST API Platform Documentation

The Hifisys Enterprise API Platform provides robust, enterprise-grade REST interfaces for HRMS automation, conversational AI bots, automated SEO content creation, and high-fidelity AI-driven page building. All APIs adhere strictly to standard REST conventions, provide low-latency JSON payloads, and utilize granular scope-based security.

API Base URL	https://hifisys.com/api/v1
Authentication	X-API-Key: YOUR_API_KEY or Authorization: Bearer YOUR_API_KEY
Payload Format	UTF-8 JSON Content-Type: application/json multipart/form-data (for file uploads)
Security Standard	TLS 1.3 Strict Transport Security, Granular OAuth/API Scopes, Leaky-Bucket Rate Limiting

Authentication & Access Keys

All endpoints on the Hifisys API platform require authentication. Include your secret API key in the request header as shown below:

```
curl -X GET "https://hifisys.com/api/v1/health" \
-H "X-API-Key: YOUR_API_KEY" \
-H "Accept: application/json"
```

Security Warning: Never expose API keys in client-side mobile apps or single-page browser code. Always route calls through a trusted backend server.

HRMS API

Complete enterprise human resource management API for employee lifecycle, attendance, leaves, payroll, payslips, work logs, and analytics. (Base URL: `https://hifisys.com/api/v1/hrms`)

GET `/api/v1/hrms/employees`

Scope: `employees:read`

List Company Employees

Returns a paginated list of company employees with department, designation, and employment status.

Parameters

Parameter	Type	Required	Description
<code>search</code>	string	Optional	Search by name, employee code, or email.
<code>department_id</code>	integer	Optional	Filter by department ID.
<code>status</code>	string	Optional	active, inactive, probation, terminated.

cURL Request Example

```
curl -X GET "https://hifisys.com/api/v1/hrms/employees?status=active" \
-H "X-API-Key: YOUR_API_KEY" \
-H "Accept: application/json"
```

Verified 200 OK Response

```
{
  "success": true,
  "data": [
    {
      "id": 1,
      "employee_code": "EMP-001",
      "full_name": "Sarah Connor",
      "email": "sarah@example.com",
      "department": "Engineering",
      "designation": "Staff Engineer",
      "employment_status": "active"
    }
  ]
}
```

POST /api/v1/hrms/attendance/clock-in

Scope: attendance:write

Attendance Clock-In

Records employee punch-in timestamp, location coordinates/mode, and IP address.

Parameters

Parameter	Type	Required	Description
employee_id	integer	Required	Unique employee identifier.
work_mode	string	Optional	office, remote, hybrid. Default: office.

cURL Request Example

```
curl -X POST "https://hifisys.com/api/v1/hrms/attendance/clock-in" \
-H "X-API-Key: YOUR_API_KEY" \
-H "Content-Type: application/json" \
-d '{"employee_id":1,"work_mode":"office"}
```

Verified 200 OK Response

```
{
  "success": true,
  "message": "Clock-in recorded successfully at 09:00:00.",
  "data": {
    "attendance_id": 124,
    "clock_in": "2026-10-07 09:00:00"
  }
}
```

Chatbot API

Context-aware conversational AI assistant API powered by Google Gemini with company services and navigation awareness. (Base URL: <https://hifisys.com/api/v1/chatbot>)

POST `/api/v1/chatbot/message`

Scope: chat:message

Send Conversational Message

Dispatches a visitor prompt to the Hifisys conversational knowledge-base assistant and returns AI-generated response with suggested quick replies.

Parameters

Parameter	Type	Required	Description
message	string	Required	User prompt/query text.
session_id	string	Optional	Session ID for multi-turn conversation memory.

cURL Request Example

```
curl -X POST "https://hifisys.com/api/v1/chatbot/message" \
-H "X-API-Key: YOUR_API_KEY" \
-H "Content-Type: application/json" \
-d '{"message":"What web development services do you offer?"}'
```

Verified 200 OK Response

```
{
  "success": true,
  "reply": "Hifisys Tech provides enterprise web development, custom Laravel apps, React/Vue frontends, and API platforms.",
  "quick_replies": [
    "Get a Quote",
    "View Portfolio",
    "Contact Sales"
  ]
}
```

AI Blog Generator API

Production-grade AI article engine that creates long-form, reader-first content, outlines, and SEO metadata. (Base URL: `https://hifisys.com/api/v1/ai/blog`)

POST `/api/v1/ai/blog/generate`

Scope: `blog:generate`

Generate Full Article

Generates a full-length SEO-optimized article with title, headings, HTML content, meta tags, and estimated read time.

Parameters

Parameter	Type	Required	Description
<code>topic</code>	string	Required	Article topic or main subject.
<code>target_keywords</code>	array	Optional	List of primary and secondary SEO keywords.
<code>tone</code>	string	Optional	professional, engaging, technical, casual. Default: professional.

cURL Request Example

```
curl -X POST "https://hifisys.com/api/v1/ai/blog/generate" \
-H "X-API-Key: YOUR_API_KEY" \
-H "Content-Type: application/json" \
-d '{"topic":"Benefits of Enterprise HRMS","tone":"professional"}'
```

Verified 200 OK Response

```
{
  "success": true,
  "data": {
    "title": "Top 7 Strategic Benefits of Modern HRMS Platforms",
    "content": "<p>Enterprise HRMS solutions streamline payroll, attendance, and compliance...</p>",
    "meta_description": "Discover how modern HRMS software transforms workforce management.",
    "read_time_minutes": 5
  }
}
```

AI Page Builder API

High-conversion website architecture API that generates semantic page sections, hero banners, and service copy. (Base URL: <https://hifisys.com/api/v1/ai/page-builder>)

POST

/api/v1/ai/page-builder/generate-page

Scope: page:generate

Generate High-Fidelity Page (Prompt + References)

Architects and generates complete, responsive landing pages adhering to prompt specifications, uploaded design references (screenshots, HTML/CSS files), and base theme contexts with up to 99% structural fidelity.

Parameters

Parameter	Type	Required	Description
prompt	string	Required	Detailed textual prompt describing target layout, sections, spacing, styling, copy, and specific constraints.
base_theme	string	Optional	Base theme context to inherit: hifisys-current, modern-dark, minimal-light, corporate. Default: hifisys-current.
output_format	string	Optional	Target code formats: html, css, js, blade, all. Default: all.
responsive	boolean	Optional	Optimize layout for mobile (390px), tablet (768px), and desktop (1366px). Default: true.
references[]	file(s)	Optional	Multiple design references: Screenshots (PNG/JPG/WebP/SVG), HTML files, CSS files, or ZIP frontend bundles.
reference_url	string	Optional	Optional public URL of reference webpage for structural and layout inspiration analysis.

cURL Request Example

```
curl -X POST "https://hifisys.com/api/v1/ai/page-builder/generate-page" \
-H "X-API-Key: YOUR_API_KEY" \
-F "prompt=Create a premium AI SaaS landing page with dark hero, gold accents, 3 feature cards, pricing, and FAQ. Keep Hifisys header." \
-F "base_theme=hifisys-current" \
-F "output_format=all" \
-F "references[]=@/path/to/screenshot.png" \
-F "references[]=@/path/to/reference.html"
```

Verified 200 OK Response

```
{
  "success": true,
  "generation_id": "gen_9f82d19e0b1274a10c92",
  "message": "Page generated successfully with high fidelity.",
  "output": {
    "html": "<section class=\"pt-32 pb-20 bg-slate-950 text-white\">\n  <div class=\"max-w-7xl mx-auto px-6 text-center\">\n    <h1 class=\"text-5xl font-black text-amber-400\">Next-Gen AI Platform</h1>\n    <p class=\"mt-4 text-slate-300\">Architect scalable workflows effortlessly.</p>\n  </div>\n</section>",
    "css": "/* Custom High-Fidelity Design Tokens */\n.btn-gold { background: #E6A622; color: #111; font-weight: 700; border-radius: 12px; }",
    "js": "document.addEventListener('DOMContentLoaded', () => { console.log('Page interactive'); });",
    "blade": "@extends('layouts.app')\n@section('content')\n  <!-- Generated Content -->\n</section>"
  },
  "reference_analysis": {
    "references_used": 2,
    "references_analyzed": [
      "screenshot.png",
      "reference.html"
    ]
  }
}
```

```
    },
    "layout_detected": "Dark Hero with 3-Column Feature Cards and Pricing Matrix",
    "fidelity_adherence": "Aggressive multi-reference matching applied."
  },
  "meta": {
    "base_theme": "hifisys-current",
    "generation_time_ms": 420,
    "quota_deducted": 1
  }
}
```

POST /api/v1/ai/page-builder/generate-section

Scope: page:section

Generate Modular Page Section

Generates an individual modular component block (Hero, Features, Pricing, Testimonials, FAQ) for seamless embedding into existing pages.

Parameters

Parameter	Type	Required	Description
section_name	string	Required	Type of section: hero, features, pricing, testimonials, faq, cta.
title	string	Required	Section heading title.
brief	string	Optional	Specific content requirements and bullet points.
layout_style	string	Optional	cards, grid, split, hero, testimonial. Default: cards.

cURL Request Example

```
curl -X POST "https://hifisys.com/api/v1/ai/page-builder/generate-section" \
-H "X-API-Key: YOUR_API_KEY" \
-H "Content-Type: application/json" \
-d '{"section_name":"pricing","title":"Flexible Pricing Plans","layout_style":"cards"}'
```

Verified 200 OK Response

```
{
  "success": true,
  "data": {
    "section_name": "pricing",
    "title": "Flexible Pricing Plans",
    "html_content": "<div class=\"py-16 bg-white\"><div class=\"grid md:grid-cols-3 gap-8\">...</div></div>",
    "meta": {
      "layout_style": "cards",
      "word_count": 140
    }
  }
}
```

POST /api/v1/ai/page-builder/clean-html

Scope: page:section

Sanitize & Clean HTML Markup

Sanitizes raw markup, strips malicious inline event listeners and script tags, and normalizes semantic element indentation.

Parameters

Parameter	Type	Required	Description
html	string	Required	Raw HTML markup string to sanitize.

cURL Request Example

```
curl -X POST "https://hifisys.com/api/v1/ai/page-builder/clean-html" \
-H "X-API-Key: YOUR_API_KEY" \
-H "Content-Type: application/json" \
-d '{"html": "<div onclick=\"alert(1)\">Safe Content</div>"}'
```

Verified 200 OK Response

```
{
  "success": true,
  "data": {
    "cleaned_html": "<div>Safe Content</div>",
    "sanitized": true
  }
}
```

Hifisys Enterprise HRMS Suite

Full-featured enterprise web software for workforce lifecycle management, biometric/web attendance, shift scheduling, leave approvals, payroll generation, recruitment ATS, and Employee Self-Service (ESS) portal. (Base URL: <https://hifisys.com/api/v1>)

Hifisys Enterprise SEO Control Center

Comprehensive 16-module SEO auditing, technical diagnostics, keyword rank tracking, Core Web Vitals monitoring, internal link graph analyzer, and schema markup software suite. (Base URL: <https://hifisys.com/api/v1>)

Hifisys CRM & Lead Automation Platform

Complete Zoho CRM-grade customer relationship platform and API suite. Unifies multi-channel lead capture, contact & account management, configurable visual sales pipelines, automated workflow triggers, multi-tenant REST APIs, and revenue analytics. (Base URL: <https://hifisys.com/api/v1/leads>)

POST /api/v1/leads

Scope: leads:write

Create / Upsert Lead (Authenticated Server-to-Server)

Creates a new CRM lead or safely merges with an existing open lead matching the normalized email address, runs configured lead automation rules, and returns the persisted lead reference code.

Parameters

Parameter	Type	Required	Description
name	string	Required	Full name of the prospective customer (max 255 chars).
email	string	Required	Valid email address used for contact and duplicate detection.
phone	string	Optional	Phone or WhatsApp number with country code.
company	string	Optional	Organization or company name.
message	string	Optional	Inquiry details, project scope, or notes.
product_slug	string	Optional	Interested Hifisys product slug (e.g., enterprise-hrms-suite, hrms-api).
interested_option	string	Optional	Purchase preference: software, api, both, or custom.
campaign	string	Optional	Marketing campaign identifier.
utm_source	string	Optional	UTM source attribution (e.g., google, linkedin, partner).
utm_medium	string	Optional	UTM medium (e.g., cpc, referral, email).
utm_campaign	string	Optional	UTM campaign name.

cURL Request Example

```
curl -X POST "https://hifisys.com/api/v1/leads" \
-H "X-API-Key: YOUR_API_KEY" \
-H "Content-Type: application/json" \
-H "Accept: application/json" \
-d '{
  "name": "Aarav Mehta",
  "email": "aarav.mehta@enterprise-example.com",
  "phone": "+91 9876543210",
  "company": "Mehta FinTech Solutions",
  "product_slug": "crm-lead-automation-platform",
  "interested_option": "both",
  "utm_source": "partner_portal",
  "utm_campaign": "q4_enterprise_launch",
  "message": "We want to deploy the CRM Software + REST API bundle for a 45-person sales team."
}'
```

Verified 200 OK Response

```
{
  "success": true,
  "message": "Lead captured and processed successfully.",
  "data": {
    "lead_code": "LEAD-2026-0001",
    "name": "Aarav Mehta",
    "email": "aarav.mehta@enterprise-example.com",
    "status": "new",
    "was_existing_merged": false,
    "duplicate_count": 0,
  }
}
```

```
}
  "created_at": "2026-10-11T14:00:00Z"
}
```

GET `/api/v1/leads`

Scope: leads:read

List Client-Scoped Leads

Returns paginated leads strictly created by the authenticated API client. Never exposes leads owned by other API clients or internal channels.

Parameters

Parameter	Type	Required	Description
<code>status</code>	string	Optional	Filter by pipeline status: new, contacted, qualified, proposal_sent, negotiation, won, lost.
<code>limit</code>	integer	Optional	Records per page (1-50, default 15).

cURL Request Example

```
curl -X GET "https://hifisys.com/api/v1/leads?limit=15" \
-H "X-API-Key: YOUR_API_KEY" \
-H "Accept: application/json"
```

Verified 200 OK Response

```
{
  "success": true,
  "data": [
    {
      "lead_code": "LEAD-2026-0001",
      "name": "Aarav Mehta",
      "email": "aarav.mehta@enterprise-example.com",
      "status": "new",
      "priority": "medium"
    }
  ],
  "meta": {
    "current_page": 1,
    "total": 1
  }
}
```

POST /api/v1/public/leads

Scope: public

Public Lead Intake Endpoint (Rate-Limited, Write-Only)

Rate-limited (20 req/min) write-only public endpoint for website forms and landing page widgets. Validates input, applies honeypot protection, and returns only a lead confirmation reference.

Parameters

Parameter	Type	Required	Description
name	string	Required	Visitor full name.
email	string	Required	Visitor email address.
phone	string	Optional	Visitor phone number.
company	string	Optional	Company name.
product_slug	string	Optional	Interested product slug.
message	string	Required	Inquiry message (min 5 chars).

cURL Request Example

```
curl -X POST "https://hifisys.com/api/v1/public/leads" \
  -H "Content-Type: application/json" \
  -H "Accept: application/json" \
  -d '{"name":"Priya Sharma","email":"priya@acme.in","product_slug":"enterprise-hrms-suite","message":"Requesting a live demo of the Enterprise HRMS software."}'
```

Verified 200 OK Response

```
{
  "success": true,
  "message": "Thank you! Your inquiry has been received by our team.",
  "lead_reference": "LEAD-2026-0002"
}
```

Standard HTTP Status & Error Codes

Status Code	Error Type	Description & Resolution
200 OK	Success	Request executed successfully. Payload returned in <code>data</code> .
201 Created	Resource Created	Entity provisioned or asynchronous job enqueued.
400 Bad Request	Malformed Request	Request syntax error, unparseable JSON, or missing parameters.
401 Unauthorized	Authentication Failure	Missing or invalid <code>X-API-Key</code> header.
403 Forbidden	Scope Insufficient	Key is valid but lacks required scope for this endpoint.
422 Unprocessable	Validation Error	Field format/type validation error. See returned <code>errors</code> array.
429 Rate Limited	Quota Exceeded	Rate limit (RPM) or monthly plan quota exhausted. Back off and retry.
500 Server Error	Internal Error	Unexpected failure logged to Hifisys support telemetry.

Enterprise Security & Support

For technical support, custom quota adjustments, or dedicated cluster deployments, contact Hifisys Engineering:

Support Email: info@hifisys.com Hotline: +91 8890897064	Developer Portal: https://hifisys.com/api-docs Company Portal: https://hifisys.com
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