

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

Community Class Enrollment Plan MCP

Build conflict-free schedules and manage class costs instantly.

Community Class Enrollment Plan MCP handles the heavy lifting of educational scheduling. It processes user preferences, accessibility requirements, and class availability to build logical enrollment paths. Your AI client uses this to check for prerequisite conflicts, calculate total fees, and find backup classes when your first choice is full.

A+ Quality Score 100/100

enrollment

scheduling

logistics

education

planning



The connectivity layer between AI and the world's software.

Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest
managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.

— Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256

Encryption at rest

Ed25519

PKI vault signatures

24h TTL

Ephemeral session keys

V8 Isolate

Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT`https://edge.vinkius.com/{token}/mcp`

Claude



Cursor



VS Code



Windsurf



Grok



Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

06 — Honeypot Trap System

Phantom credentials are injected into isolated environments. If a honeypot is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1)
Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

Get started at cloud.vinkius.com — connect your AI agent in under 60 seconds.

Community Class Enrollment Plan MCP

4 tools available

Cloud-hosted on Vinkius

Managing community education involves juggling messy variables like prerequisite requirements, accessibility needs, and tight budgets. This MCP acts as a decision engine for those logistics. Instead of manually checking if a student can attend a specific session, you let your agent handle the math and the scheduling logic.

You can use it to build a primary schedule based on specific priorities, like a certain subject or a need for ramp access. If a class is unavailable, the MCP finds the next best option. It also keeps track of the money, totaling up fees and identifying payment deadlines so nothing gets missed. It's a way to turn a list of messy class data into a clean, actionable plan for any student or administrator.

Core Capabilities

01 — Conflict Detection

The agent checks if classes meet prerequisite and accessibility needs.

02 — Automated Scheduling

The agent builds ranked enrollment plans based on user priorities.

03 — Financial Tracking

The agent aggregates total fees and tracks upcoming payment deadlines.

04 — Alternative Routing

The agent identifies suitable backup classes when primary options fail.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/community-class-enrollment-plan — connect your AI agent in three steps.

- 01 Connect your MCP-compatible client to Vinkius.
- 02 Provide the list of available classes and user requirements to your agent.
- 03 The agent runs the planning and validation tools.
- 04 You receive a finalized enrollment plan, cost summary, or conflict report.

You connect the MCP to your client and start feeding it class data and user constraints.

Built For

This MCP is built for anyone managing or participating in community-based learning programs.

Education Administrators

They hand off complex student scheduling and fee tracking to the agent.

Community Program Coordinators

They use it to manage class availability and accessibility logistics.

Students and Learners

They use the agent to find the best class combinations for their budget and needs.

What Changes When You Connect

- 01 Eliminates scheduling conflicts by checking prerequisites automatically.
- 02 Reduces manual math by aggregating total costs and deadlines.

- 03

Provides immediate alternatives when preferred classes are unavailable.
- 04

Matches class availability against specific accessibility requirements.

Real-World Applications

Student Enrollment

A student provides their interests and needs to get a ranked list of classes.

Accessibility Auditing

A coordinator verifies that a chosen schedule meets all physical accessibility requirements.

Budget Planning

An organizer calculates the total cost for a group of students to attend specific sessions.

Waitlist Management

An administrator finds the best secondary options for students who missed their first choice.

Patterns to Avoid

Manual constraint checking

❌ AVOID

You try to manually cross-reference every student's accessibility needs against a massive spreadsheet of class locations.

✓ INSTEAD

Let the agent handle the logic by using ``validate_availability`` to check if a class set meets specific user constraints.

Ignoring budget limits

❌ AVOID

You enroll a group of students in classes without knowing if the total fees exceed your program's funding.

✓ INSTEAD

Run ``calculate_financial_summary`` to get a clear view of total costs and upcoming payment deadlines before you commit.

Sticking to full classes

❌ AVOID

A student misses their first choice and you spend an hour searching for a replacement that fits their schedule.

✓ INSTEAD

Use `generate\_backup\_plan` to immediately find the best alternative classes when primary options are unavailable.

The Right Fit

Education administrators and program coordinators should connect this MCP to automate complex scheduling and fee tracking. If you are just looking for a simple list of class times without needing to manage prerequisites or budgets, you don't need this. The deciding factor is whether your enrollment process requires matching specific student needs against class availability.



4 Tools for Managing Community Class Enrollment

These tools handle the heavy lifting for scheduling, checking class availability, and tracking student costs.

#	TOOL	DESCRIPTION
01	generate_backup_plan	This tool finds the best alternative classes if your primary choice is full or unavailable.
02	plan_enrollment	This tool builds your primary, optimized enrollment schedule and all related logistical details.
03	validate_availability	This tool checks if a specific set of classes works for a user based on their constraints.
04	calculate_financial_summary	This tool adds up all costs and identifies payment deadlines for a selected group of classes.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

U Help me plan my enrollment for these classes: [{"classId": "c1", "title": "Art 101", "startTime": "2024-09-01T10:00:00", "endTime": "2024-09-01T12:00:00", "fee": 50, "prerequisites": [], "accessibilityFeatures": ["ramp"], "priorityScore": 5}] with my priorities: ['Art'] and needs: ['ramp'].



Your enrollment plan is ready. You are enrolled in Art 101 (Rank 1). Total cost is \$50, due by 2024-09-01.

U I want to take class c1 and c2. Are there any conflicts?



No conflicts detected. Both classes meet your prerequisites and accessibility requirements.

U What is the total cost for classes c1 and c2?



The total cost for the selected classes is \$120. Individual fees are \$50 for c1 and \$70 for c2.

Frequently Asked Questions

01 What AI clients can I use with this MCP?

You can use this MCP with any compatible client like Claude, Cursor, Windsurf, or VS Code.

02 How does the MCP handle accessibility needs?

The `validate_availability` tool checks class data against specific user constraints like ramp access.

03 Can it help with class costs?

Yes, the `calculate_financial_summary` tool aggregates all fees and identifies payment deadlines.

04 What happens if a class is full?

The `generate_backup_plan` tool identifies the best alternative classes for the user.

05 Do I need to host this myself?

No, Vinkius hosts and manages the MCP for you so it is ready to use immediately.

06 How does the tool handle scheduling conflicts?

The `plan_enrollment` tool automatically filters out classes with overlapping time intervals to ensure your schedule remains conflict-free.

07 Can I check if I meet the requirements for a specific class?

Yes, you can use `validate_availability` to verify if your completed prerequisites and accessibility needs match the class requirements.

08 How are class priorities determined?

Classes are ranked based on how closely they align with the learning priorities you provide during the planning process.

Go Live in 60 Seconds

Get your connection token from cloud.vinkius.com, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

`https://edge.vinkius.com/[TOKEN]/mcp`

CLIENT	WHERE TO CONFIGURE
 Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
 Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
 VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"community-class-enrollment-plan": { "url": "..." }</code>
 Windsurf	MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL
 ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
 Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

-  Ask ChatGPT 
-  Ask Claude 
-  Ask Perplexity 
-  Ask Gemini 
-  Ask Grok 

READY TO CONNECT

Community Class Enrollment Plan is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and
start building. No SDK. No deployment. Just results.

Start at cloud.vinkius.com →

vinkius.com · support@vinkius.com

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DOCUMENT INFORMATION

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Endpoint	https://edge.vinkius.com/{token}/mcp

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