

PersonaEngine - Task #929

PE-1814: Add API usage analytics and rate limiting

2026-05-16 17:24 - Fredrick Amnehagen

Status:	Done	Start date:	2026-05-16
Priority:	High	Due date:	
Assignee:		% Done:	100%
Category:		Estimated time:	0:00 hour
Target version:		Spent time:	0:00 hour

Description

Problem

No visibility into API usage patterns. No per-user rate limiting or quotas.

Missing Features

1. Per-user API usage dashboard
2. Rate limiting by endpoint/user
3. Quota enforcement (e.g., 1000 requests/day)
4. Usage metrics (requests, bandwidth, compute time)

Implementation Plan

1. Create api_usage_logs table (timestamp, user_id, endpoint, response_time, status_code)
2. Add middleware to log all requests
3. Create GET /api/v1/usage/summary endpoint
4. Add X-RateLimit-* headers to responses
5. Configurable rate limits per endpoint

Rate Limit Configuration

Endpoint	Limit
/search	50/min
/personas	200/min
/webhooks	100/min
/health	1000/min

Files to Create/Modify

- app/Http/Middleware/LogApiUsage.php
- app/Models/ApiUsageLog.php
- database/migrations/ (api_usage_logs)
- routes/api_v1.php (usage endpoints)
- config/api.php (rate limits)

Benefits

- Prevent abuse
- Track usage patterns
- Identify performance issues
- Enable tiered pricing

History

#1 - 2026-05-16 18:18 - Fredrick Amnehagen

- Status changed from To do to Done

- % Done changed from 0 to 100

Added api_usage_logs and api_rate_limits tables. Added RateLimitApi middleware with endpoint-based limits. Added GET /usage/summary and GET /usage/me endpoints. OpenAPI spec updated.