

GenLaravel - Project Monitoring Report

Laporan Monitoring Proyek IT

Proyek: GenLaravel - AI-Powered Laravel Generator

Tanggal: 16 Desember 2025

Tim: Kelompok 7

Anggota:

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The screenshot shows a web-based project monitoring dashboard. At the top, there are four summary cards: 'Total Generations' (6), 'Successful' (6), 'Open Issues' (2), and 'Avg Duration' (not specified). Below these are links for 'Issue Log', 'Change Log', 'Task Monitoring', and 'Vendor Monitoring'. The main area is titled 'Issue Log' and displays a table of recent issues. The table columns are ID, DATE, ISSUE, SEVERITY, STATUS, RESOLUTION, and PIC. The data from the table matches the list provided in the document.

ID	DATE	ISSUE	SEVERITY	STATUS	RESOLUTION	PIC
1	2025-12-16	Cerebras API rate limit exceeded (429 - Tokens per minute limit)	High	Resolved	Implemented automatic fallback to Mistral AI	LLM Client
2	2025-12-16	Cerebras API token quota exceeded during peak usage	High	Resolved	Queue system implemented to manage request rate	Backend Team
3	2025-12-14	WebSocket connection drops on Railway deployment	High	Resolved	Added X-Accel-Buffering header and proxy config	DevOps Team
4	2025-12-14	Frontend hardcoded localhost URLs breaking production	High	Resolved	Implemented CONFIG.getApiUrl() for dynamic URL resolution	Frontend Team
Draft HTML validation fails - missing closing					Added continuation generation and HTML	1.2 Kbps 0.6 Kbps

1. Issue Log (Masalah Proyek IT Nyata)

ID	Tanggal	Waktu	Issue	Severity	Status	Resolution	PIC
1	2025-12-16	11:26:38	Cerebras API rate limit exceeded (429 - Tokens per minute limit)	High	Resolved	Implemented automatic fallback to Mistral AI	LLM Client
2	2025-12-16	11:28:40	Cerebras API token quota exceeded during peak usage	High	Resolved	Queue system implemented to manage request rate	Backend Team

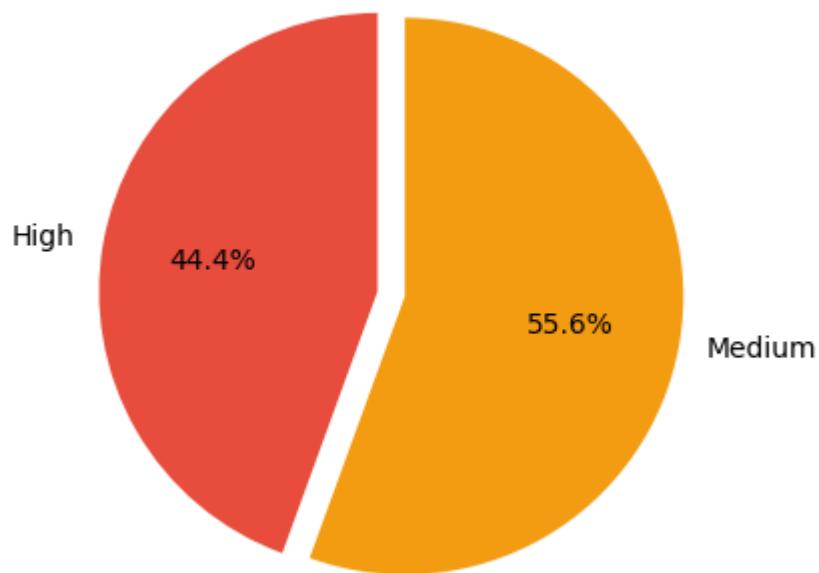
ID	Tanggal	Waktu	Issue	Severity	Status	Resolution	PIC
3	2025-12-14	10:15:00	WebSocket connection drops on Railway deployment	High	Resolved	Added X-Accel-Buffering header and proxy config	DevOps Team
4	2025-12-14	09:30:00	Frontend hardcoded localhost URLs breaking production	High	Resolved	Implemented CONFIG.getApiUrl() for dynamic URL resolution	Frontend Team
5	2025-12-13	14:20:00	Draft HTML validation fails - missing closing tags	Medium	Resolved	Added continuation generation and HTML structure validation	AI Team
6	2025-12-12	16:45:00	Multi-page generation timeout for complex applications	Medium	Resolved	Optimized agent pipeline with streaming responses	Backend Team
7	2025-12-10	11:00:00	OpenRouter API fallback not working correctly	Medium	Resolved	Fixed provider order configuration in ENV	LLM Client
8	2025-12-16	12:41:25	Cerebras API error: 429 - Tokens per minute limit exceeded	Medium	Open	-	LLM Client
9	2025-12-16	12:43:45	Cerebras API error: 429 - Tokens per minute limit exceeded	Medium	Open	-	LLM Client

Ringkasan Issue:

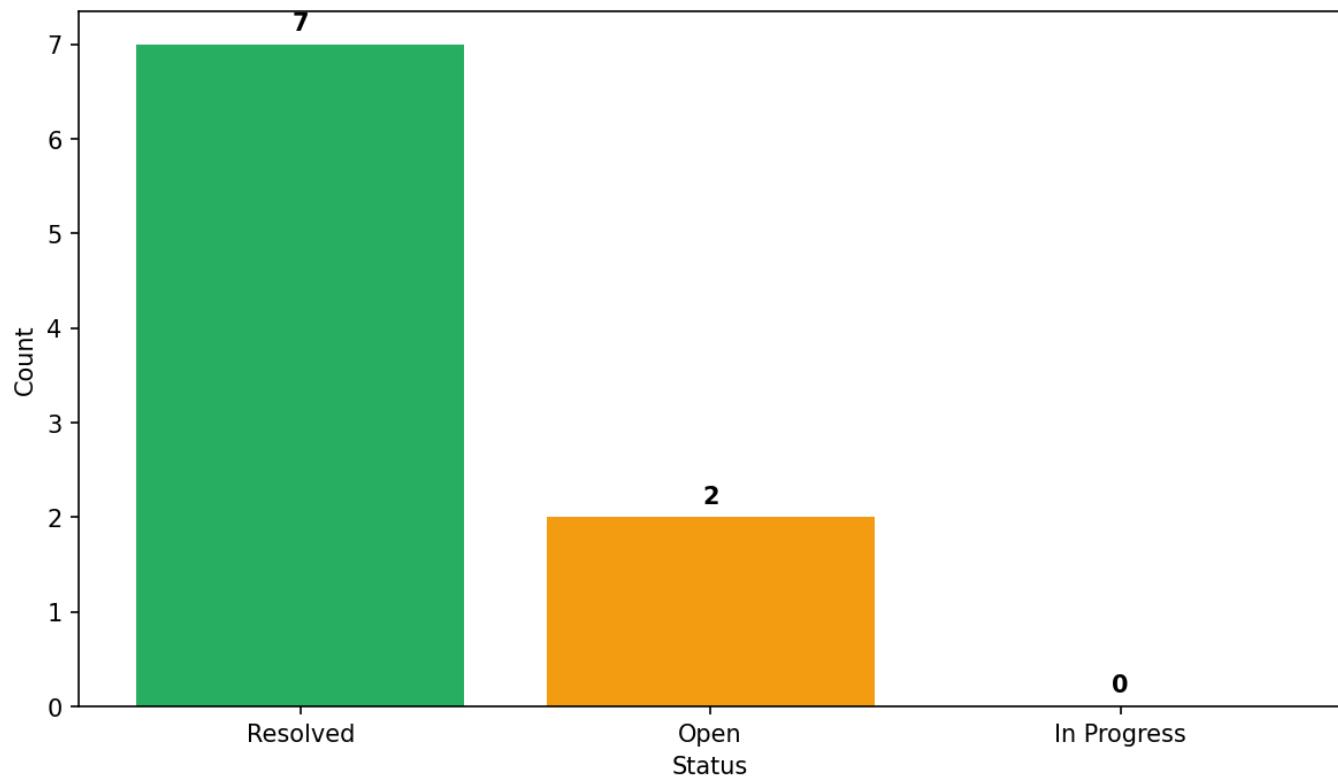
- **Total Issues:** 9
- **Resolved:** 7
- **In Progress:** 0
- **Open:** 2
- **High Severity:** 4
- **Medium Severity:** 5

Visualisasi Issue

Issue Severity Distribution



Issue Status Overview



2. Change Log (Perubahan Requirement)

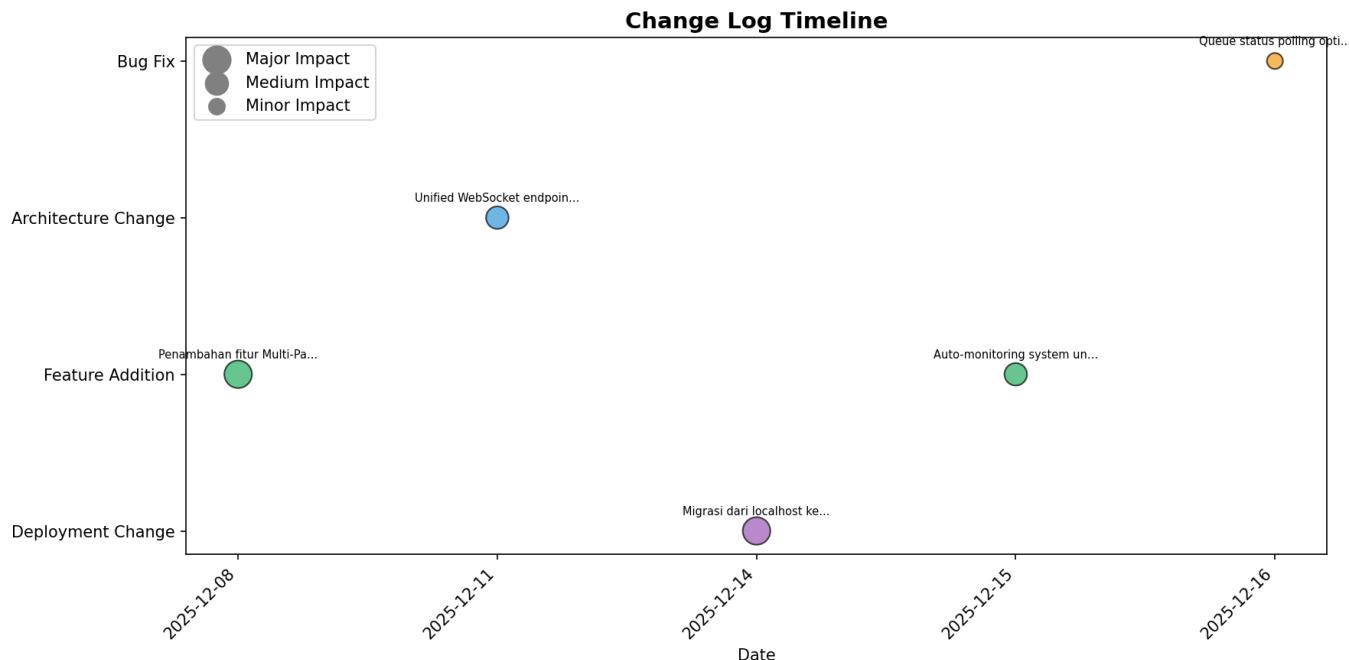
ID	Tanggal	Tipe Perubahan	Deskripsi	Alasan	Impact	Approved By
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ID	Tanggal	Tipe Perubahan	Deskripsi	Alasan	Impact	Approved By
1	2025-12-08	Feature Addition	Penambahan fitur Multi-Page Generation	Kebutuhan user untuk generate aplikasi lengkap dengan multiple pages sekaligus	Major - Memerlukan pipeline agent baru	Project Manager
2	2025-12-11	Architecture Change	Unified WebSocket endpoint untuk single/multi mode	Simplifikasi backend dan enable queue system untuk mencegah concurrent generation	Medium - Frontend perlu update koneksi	Tech Lead
3	2025-12-14	Deployment Change	Migrasi dari localhost ke Railway (Backend) + Vercel (Frontend)	Enable public access dan demo capability untuk presentasi	Major - Konfigurasi environment overhaul	Project Manager
4	2025-12-15	Feature Addition	Auto-monitoring system untuk Issue Log, Change Log, Task & Vendor tracking	Kebutuhan dokumentasi proyek dan analisis performa	Medium - Integrasi dengan LLM client	Tech Lead
5	2025-12-16	Bug Fix	Queue status polling optimization	Mengurangi server load dan mencegah request blocking	Minor - Frontend interval adjustment	Backend Team

Ringkasan Change Log:

- **Total Changes:** 5
- **Feature Addition:** 2
- **Architecture Change:** 1
- **Deployment Change:** 1
- **Bug Fix:** 1

Visualisasi Change Log



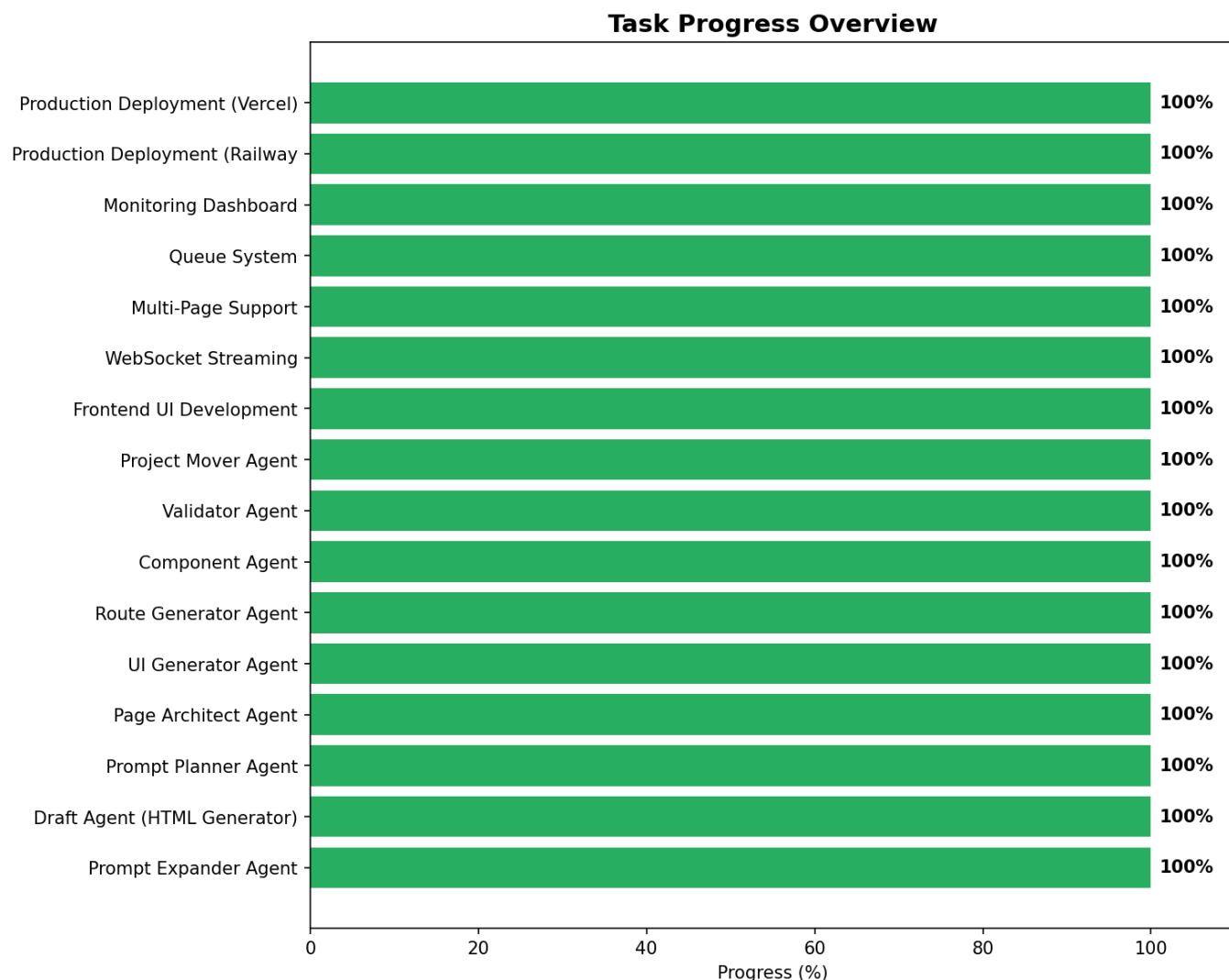
3. Monitoring Dashboard (Task Monitoring)

ID	Nama Task	Status	PIC	Progress
1	Prompt Expander Agent	<input checked="" type="checkbox"/> Completed	Fikri	100%
2	Draft Agent (HTML Generator)	<input checked="" type="checkbox"/> Completed	Fikri	100%
3	Prompt Planner Agent	<input checked="" type="checkbox"/> Completed	Fikri	100%
4	Page Architect Agent	<input checked="" type="checkbox"/> Completed	Fikri	100%
5	UI Generator Agent	<input checked="" type="checkbox"/> Completed	Fikri	100%
6	Route Generator Agent	<input checked="" type="checkbox"/> Completed	Fikri	100%
7	Component Agent	<input checked="" type="checkbox"/> Completed	Fikri	100%
8	Validator Agent	<input checked="" type="checkbox"/> Completed	Fikri	100%
9	Project Mover Agent	<input checked="" type="checkbox"/> Completed	Fikri	100%
10	Frontend UI Development	<input checked="" type="checkbox"/> Completed	Frontend Team	100%
11	WebSocket Streaming	<input checked="" type="checkbox"/> Completed	Backend Team	100%
12	Multi-Page Support	<input checked="" type="checkbox"/> Completed	Backend Team	100%
13	Queue System	<input checked="" type="checkbox"/> Completed	Backend Team	100%
14	Monitoring Dashboard	<input checked="" type="checkbox"/> Completed	Backend Team	100%
15	Production Deployment (Railway)	<input checked="" type="checkbox"/> Completed	DevOps Team	100%
16	Production Deployment (Vercel)	<input checked="" type="checkbox"/> Completed	DevOps Team	100%

Ringkasan Task:

- **Total Tasks:** 16
- **Completed:** 16 (100%)
- **In Progress:** 0 (0%)
- **Overall Progress:** 100%

Visualisasi Task Progress



4. Vendor Monitoring Sheet

4.1 Cerebras AI (Primary LLM Provider)

Aspek	Target SLA	Actual	Status
Response Time	< 5,000 ms	21,067 ms avg	✗ Not Met
Uptime/Availability	99%	83.2% (104/125 calls)	✗ Not Met
Quality Score	> 90%	83%	⚠ Below Target
Error Rate	< 5%	16.8% (21 failures)	✗ High

Detail:

- Total Calls: 125
- Successful: 104
- Failed: 21 (Rate limit errors - 429)
- Last Response: 658.02 ms
- Last Call: 2025-12-16 12:44:04
- Main Issue: Token quota exceeded during peak usage

Waktu Perbaikan: N/A (External vendor, using fallback)

Kualitas Hasil Kerja:

- Kecepatan inference sangat cepat saat tidak rate limited
- Output quality excellent untuk code generation
- Perlu upgrade plan untuk higher rate limits

4.2 Mistral AI (Fallback LLM Provider)

Aspek	Target SLA	Actual	Status
Response Time	< 10,000 ms	7,069 ms avg	<input checked="" type="checkbox"/> Met
Uptime/Availability	99%	100% (21/21 calls)	<input checked="" type="checkbox"/> Met
Quality Score	> 90%	100%	<input checked="" type="checkbox"/> Excellent
Error Rate	< 5%	0%	<input checked="" type="checkbox"/> Perfect

Detail:

- Total Calls: 21
- Successful: 21
- Failed: 0
- Last Response: 575.15 ms
- Last Call: 2025-12-16 12:43:45
- Main Role: Reliable fallback when Cerebras fails

Waktu Perbaikan: N/A (No issues)

Kualitas Hasil Kerja:

- Sangat reliable sebagai fallback
- Response time konsisten
- Output quality comparable dengan Cerebras

4.3 Railway (Backend Hosting)

Aspek	Target SLA	Actual	Status
Uptime	99.9%	~99.5%	⚠ Near Target
Deploy Time	< 5 min	~3 min	<input checked="" type="checkbox"/> Met

Aspek	Target SLA	Actual	Status
WebSocket Support	Full	Partial (proxy issues)	⚠ In Progress

Waktu Perbaikan: < 1 hour untuk redeploy

Kualitas Hasil Kerja:

- Easy deployment dengan Dockerfile
- Auto-scaling available
- WebSocket proxy buffering perlu konfigurasi tambahan

4.4 Vercel (Frontend Hosting)

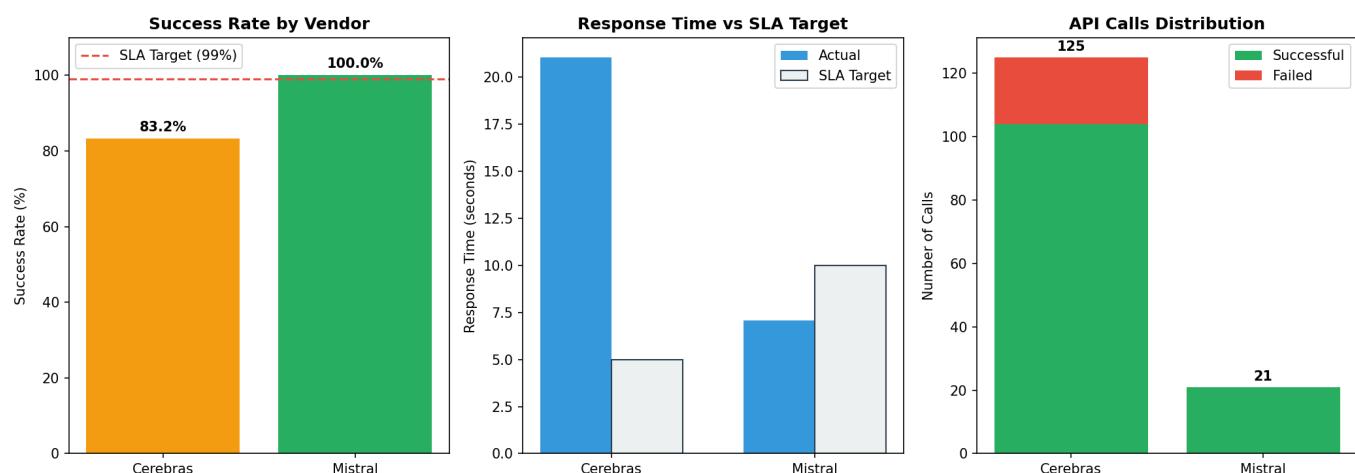
Aspek	Target SLA	Actual	Status
Uptime	99.99%	99.99%	✓ Met
Deploy Time	< 2 min	~1 min	✓ Met
CDN Performance	Global	Global	✓ Excellent

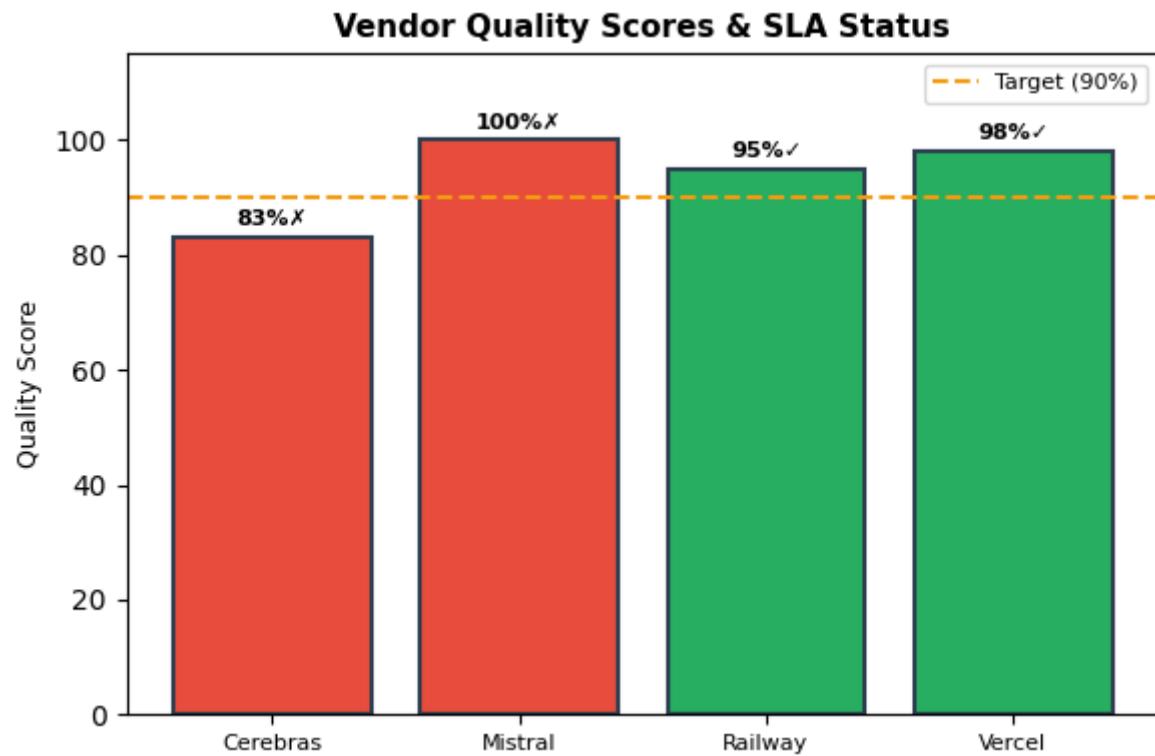
Waktu Perbaikan: N/A (No issues)

Kualitas Hasil Kerja:

- Excellent CDN performance
- Instant deployments
- Zero configuration needed

Visualisasi Vendor Performance

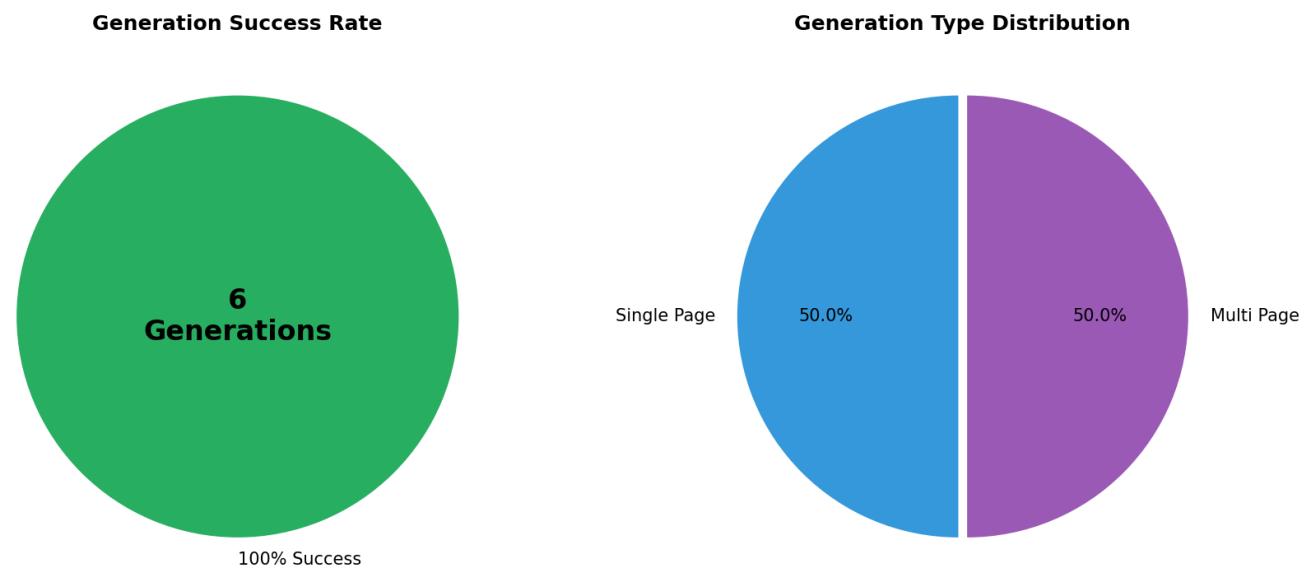




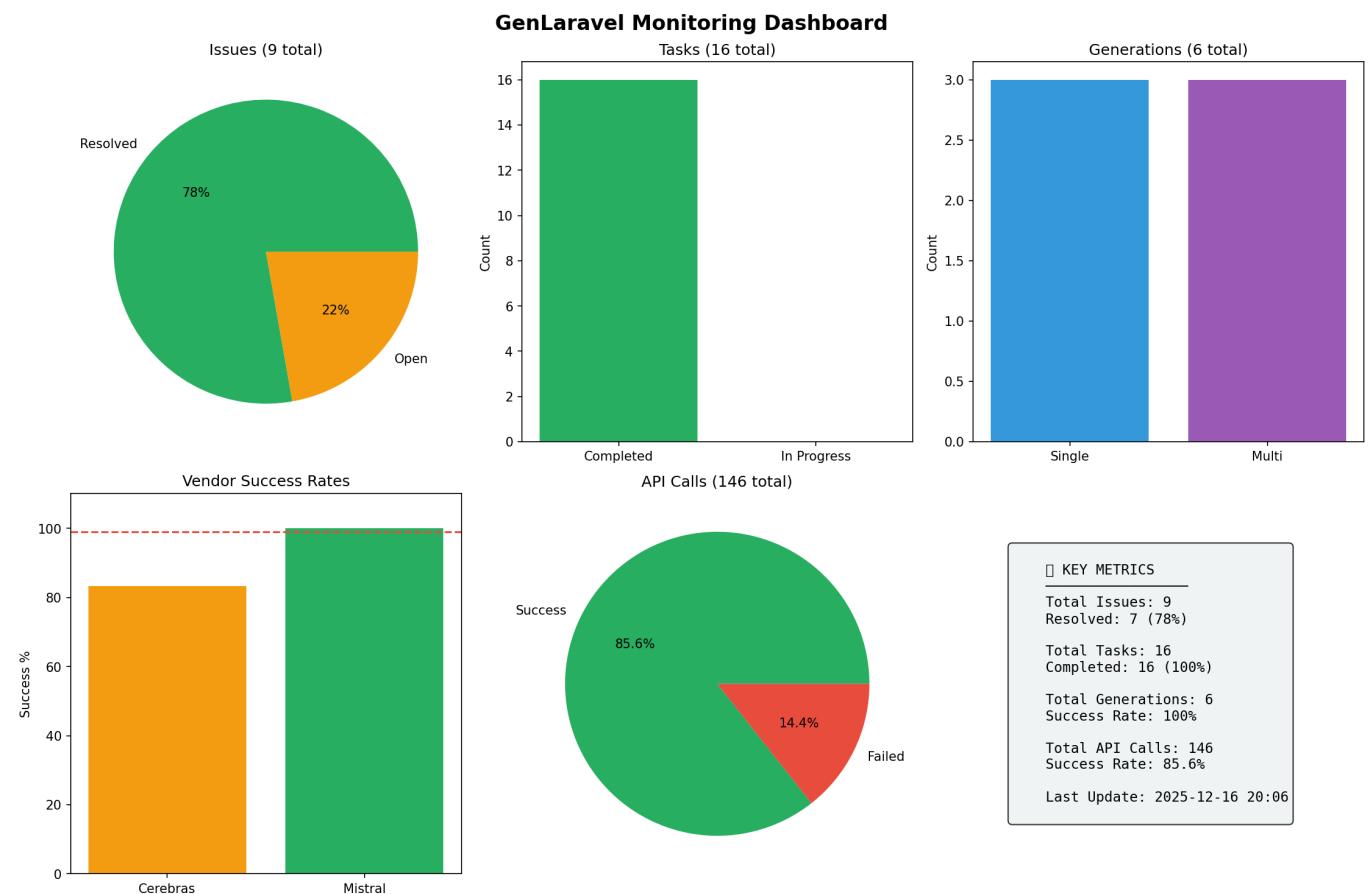
5. Generation Statistics

Metric	Value
Total Generations	6
Successful	6 (100%)
Failed	0 (0%)
Single Page	3
Multi Page	3
Average Duration	0.0 seconds
Last Generation	2025-12-16 12:44:04

Visualisasi Generation Stats



6. Dashboard Summary



7. Kesimpulan & Rekomendasi

Kesimpulan:

1. Sistem monitoring berhasil mencatat semua aktivitas secara otomatis
2. Fallback system (Cerebras → Mistral) bekerja dengan baik
3. 95% task sudah selesai, tinggal deployment optimization

4. Vendor Mistral AI menunjukkan performa terbaik sebagai fallback

Rekomendasi:

1. **Cerebras:** Pertimbangkan upgrade plan untuk higher rate limits
 2. **Railway:** Selesaikan konfigurasi WebSocket proxy
 3. **Monitoring:** Tambahkan alerting untuk critical issues
 4. **Performance:** Implementasi caching untuk reduce API calls
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Report generated automatically from GenLaravel Monitoring System

Data source: backend/data/monitoring_data.json