

System Audit Report

Overall Score: 3.7 / 5.0

Date: 2026-01-19

Risk Level: Critical

Scope: Full System

1. Dimension Scores

Dimension	Score	Findings
Code Quality	5.0	0
Security	5.0	0
Testing	0.0	1
Database	5.0	11
API	0.5	60
Architecture	5.0	0
UI/UX	5.0	0
AI Layer	5.0	6
DevOps	1.5	3
Performance	5.0	0

2. Critical Findings

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/db/optimize' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/plants/{plant_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/audit/cleanup' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/flags/health' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/webhooks/{webhook_id}/test' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/candidates/{candidate_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/job-levels' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/audit/diff/{base_id}/{comparison_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/hcm/leaves/{leave_id}/status' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/sub-departments/{sub_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/audit/trends/{dimension}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/audit/history' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/designations/{desig_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/audit/diff/{base_id}/{comp_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/hcm/leaves/balances' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/audit/reports/{report_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/audit/reports' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/audit/regressions' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/departments/{dept_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/payroll' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/webhooks/{webhook_id}/logs' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/health' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/documents/upload' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/maintenance/backup' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/ai' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/cache/flush' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/audit/findings/{finding_id}/acknowledge' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/jobs/{job_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/maintenance/restore' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/api-keys/{key_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/grades/{grade_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/organizations/{org_id}/plants' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/ai/test-connection' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/background-jobs/{job_id}/cancel' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/notification-settings/test-email' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/job-levels/{level_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/banks/{bank_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/cleanup/run' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/holidays/{holiday_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/api-keys/{key_id}/revoke' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/shifts/{shift_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/backup' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/audit/schedule' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/background-jobs/{job_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/employment-levels/{level_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/system/logs/rotate' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/positions/{position_id}' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] Breaking Change: Endpoint Removed

Description: Endpoint '/api/compliance/settings' was removed from API.

Recommendation: Restore endpoint or bump API version.

[Critical] No backup strategy implemented

Description: Database backup scripts not found

Recommendation: Implement automated database backup mechanism

3. Major Findings

[Major] Test coverage estimated at 28.5%

Description: Low test coverage detected

Recommendation: Add unit tests for core modules

[Major] Unenforced Foreign Key: 'core_organizations.head_id'

Description: Column 'head_id' suggests a relation but has no FK constraint.

Recommendation: Add FOREIGN KEY constraint for head_id

[Major] Unenforced Foreign Key: 'core_organizations.tax_id'

Description: Column 'tax_id' suggests a relation but has no FK constraint.

Recommendation: Add FOREIGN KEY constraint for tax_id

[Major] Unenforced Foreign Key: 'core_users.employee_id'

Description: Column 'employee_id' suggests a relation but has no FK constraint.

Recommendation: Add FOREIGN KEY constraint for employee_id

[Major] Unenforced Foreign Key: 'core_departments.hod_id'

Description: Column 'hod_id' suggests a relation but has no FK constraint.

Recommendation: Add FOREIGN KEY constraint for hod_id

[Major] Unenforced Foreign Key: 'core_departments.manager_id'

Description: Column 'manager_id' suggests a relation but has no FK constraint.

Recommendation: Add FOREIGN KEY constraint for manager_id

[Major] Unenforced Foreign Key: 'core_sub_departments.manager_id'

Description: Column 'manager_id' suggests a relation but has no FK constraint.

Recommendation: Add FOREIGN KEY constraint for manager_id

[Major] Breaking Change: Method Removed

Description: Method 'DELETE' removed from '/api/employees/{employee_id}'.

Recommendation: Restore method support.

[Major] Breaking Change: Method Removed

Description: Method 'POST' removed from '/api/sub-departments'.

Recommendation: Restore method support.

[Major] Breaking Change: Method Removed

Description: Method 'POST' removed from '/api/payroll-settings'.

Recommendation: Restore method support.

[Major] Breaking Change: Method Removed

Description: Method 'PUT' removed from '/api/ai/config'.

Recommendation: Restore method support.

[Major] Breaking Change: Method Removed

Description: Method 'POST' removed from '/api/system/api-keys'.

Recommendation: Restore method support.

[Major] Breaking Change: Method Removed

Description: Method 'DELETE' removed from '/api/users/{user_id}'.

Recommendation: Restore method support.

[Major] Breaking Change: Method Removed

Description: Method 'POST' removed from '/api/audit-logs'.

Recommendation: Restore method support.

[Major] Breaking Change: Method Removed

Description: Method 'POST' removed from '/api/organizations'.

Recommendation: Restore method support.

[Major] Breaking Change: Method Removed

Description: Method 'GET' removed from '/api/system/webhooks/{webhook_id}'.

Recommendation: Restore method support.

[Major] Breaking Change: Method Removed

Description: Method 'PUT' removed from '/api/system/webhooks/{webhook_id}'.

Recommendation: Restore method support.

[Major] Breaking Change: Method Removed

Description: Method 'GET' removed from '/api/performance-reviews'.

Recommendation: Restore method support.

[Major] Insufficient input validation on AI calls

Description: Not all AI integrations validate input data (10/57)

Recommendation: Add schema validation before sending data to AI models

[Major] Unsafe AI Temperature Settings

Description: Found 48 AI calls without explicit low-temperature settings (risk of hallucinations).

Recommendation: Set temperature=0.0-0.2 for factual tasks.

[Major] Missing Grounding Instructions

Description: Found 56 AI prompts without grounding constraints.

Recommendation: Include 'only use provided context' or similar constraints in prompts.

[Major] Missing Response Validation

Description: Found 51 AI calls without response validation.

Recommendation: Implement schema validation or parsing for AI outputs to catch malformed responses.

[Major] Insufficient Fallback Behavior

Description: Less than 50% of AI calls have fallback logic (0/57).

Recommendation: Implement graceful degradation with default responses when AI calls fail.

[Major] No deployment scripts found

Description: Missing automated deployment configuration

Recommendation: Create deployment scripts (start_app.bat/sh, Dockerfile)

[Major] Analyzer execution failed: drift_detection

Description: [WinError 3] The system cannot find the path specified: 'D:\\Project\\PEOPLE_OS\\modules'

Recommendation: Check analyzer implementation and dependencies

4. Action Plan

Issue	Owner	Priority
Breaking Change: Endpoint Removed	unassigned	Critical
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