

# System Audit Report

Overall Score: 3.7 / 5.0

Risk Level: Critical

Date: 2026-01-19

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 |
| Breaking Change: Endpoint Removed | unassigned | Critical |
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