

# System Audit Report

**Overall Score: 3.7 / 5.0**

**Risk Level: High**

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	13
API	0.5	1
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] 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] Unenforced Foreign Key: 'audit\_findings.run\_id'

Description: Column 'run\_id' suggests a relation but has no FK constraint.

Recommendation: Add FOREIGN KEY constraint for run\_id

### [Major] Unenforced Foreign Key: 'audit\_findings.rule\_id'

Description: Column 'rule\_id' suggests a relation but has no FK constraint.

Recommendation: Add FOREIGN KEY constraint for rule\_id

### [Major] Insufficient input validation on AI calls

Description: Not all AI integrations validate input data (10/59)

Recommendation: Add schema validation before sending data to AI models

### [Major] Unsafe AI Temperature Settings

Description: Found 50 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 58 AI prompts without grounding constraints.

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

### [Major] Missing Response Validation

Description: Found 53 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 (0/59).

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
No backup strategy implemented	unassigned	Critical
Test coverage estimated at 28.5%	unassigned	High
Unenforced Foreign Key: 'core_organizations.h'	unassigned	High
Unenforced Foreign Key: 'core_organizations.t'	unassigned	High
Unenforced Foreign Key: 'core_users.employee_'	unassigned	High
Unenforced Foreign Key: 'core_departments.hod'	unassigned	High
Unenforced Foreign Key: 'core_departments.man'	unassigned	High
Unenforced Foreign Key: 'core_sub_departments'	unassigned	High
Unenforced Foreign Key: 'audit_findings.run_i'	unassigned	High
Unenforced Foreign Key: 'audit_findings.rule_'	unassigned	High