

Internal Process Automation Tool - Database Documentation

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1. Introduction

Documentation of the database integration for the Internal Process Automation Tool (Jan 2024 - Jun 2024) to connect with HR database. This 1-2 page excerpt, part of a 5-page document, was used by developers in May 2024 to support resource allocation, achieving a 30% reduction in staffing time.

2. Database Overview

- Database: MySQL, HR schema.
- Purpose: Store and retrieve consultant skills, availability, and assignments.
- Access: Restricted to tool admins via VPN.

3. Key Tables

Table 1: consultants

- Columns: consultant_id (varchar), name (varchar), skills (text), availability (datetime).
- Purpose: Store consultant profiles.
- Example: (12345, "John Doe", "SQL, Python", "2024-06-01").
- Primary Key: consultant_id.

Table 2: assignments

- Columns: assignment_id (varchar), consultant_id (varchar), project_id (varchar), start_date (datetime).
- Purpose: Track project assignments.

- Example: (A001, 12345, P001, “2024-06-01”).
- Foreign Keys: consultant_id, project_id.

4. Security

- Encryption: AES-256 for sensitive fields, verified in sprint 4.
- Access: Role-based (HR leads, project managers), tested in UAT.
- Audit Logs: Track data access, reviewed biweekly.

5. Testing

- Tools: SQL queries for validation in sprints 3-4.
- Test Cases: 6 cases (e.g., skill matching, availability updates).
- Results: 100% accuracy in UAT (Jun 2024).

6. Troubleshooting

- Issue: Data not updating. Solution: Check database connection.
- Issue: Access denied. Solution: Verify user permissions.
- Support: Contact [IT email].