3P3 Project Analysis Report

1. Introduction

This document provides an analysis of the 3P3 database and development methodology.

2. Core System Structure

The application will be structured around **three main categories of tables**:

1. **Process Setups**
    - **Process Categories:** Defines high-level groupings of processes.
    - **Processes**: Details all process definitions
2. **Logs (logging table for all DNA pathways)**
    - Stores logs of processes throughout the system.
    - The most data-heavy table, serving as the central point of all process-related logging.
    - This table will be very fundamental to determine the DNA of actions and results.
3. **Entities**
    - Employees
    - Products
    - Clients
    - Client Requests
    - Client Request Details
    - Tasks
    - Projects
    - *…All other entity-related tables as required.*

3. Design Principles

- **Minimal Calculations Inside Tables:**
  Avoid placing heavy calculations inside tables to improve performance.
- **Heavy Reliance on SQL Queries:**
  Leverage ExecuteSQL for querying data across tables instead of embedding unnecessary relationships.
- **Optimized Interface Layouts:**
  Design layouts in a way that reduces weight on user interfaces while maintaining clarity.

5. Files

The system will be split into three main files:

1. **Main File** – Application configuration and central access.
2. **Logs File** – Handles the **Logs** table.
3. **Entity Tables File** – Manages all other entity and reference tables.

6. Development Approach

All development will take place directly on the server allocated for the project, to ensure alignment and central management.

Below is the step-by-step breakdown of the development process.

Step-by-Step Breakdown

(WEEKS 1 - 2)

This has been completed

(WEEK 3)

Analyse full project and create full project specifications report to have timelines and cost breakdown of the full project

(It was initially slated for Weeks 3-4, but we'll do our best to fit it in just Week 3 so we can have more time to do the development of the first module)

(WEEKS 4 - 5)

1. **Create Project Files.**
2. **Set up "Processes Setups" Table Structures** (*Process Categories + Processes*) and populate with initial data.
3. **Create Employee-Related Tables** and populate with baseline staff data.
4. **Create User Management Tables** and populate with necessary initial data.
5. **Implement Login Process** for system access

(WEEKS 6 - 7)

6. **Build all Interfaces** that will be used to handle the following:
    - The display of the **processes structure (process categories & processes interface)**
    - Features for **assigning personnel responsible for all the various processes**.

(WEEKS 8 - 12)

7. **IMPLEMENT PRODUCTS MODULE**
    - Create all interfaces and all features related to the full setup and management of products.
    - Will include all product-related interfaces, setup, and management tools.
    - Developed using the 3P3 methodology.

8. Key Questions

These are questions we had during the deliberations process:

1. **Can more than one person be responsible for a single process?**
2. **What are all the different modules to be implemented in the system, starting from Products Management?**
3. **What should be the standard length of serial numbers in the DNA codes?**
4. **What are the 16 specialized system tables?**
5. **What are the 3 product management tables?**