📋 Daily Work Progress Report

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📝 Introduction

Today, Mihigo Prince worked on enhancing the backend systems of the Fine Fish Management Platform, focusing on three major modules — Feed Stock Management, Parent Fish Feed Management, and Parent Fish Medication Management. His goal was to strengthen the data structure, streamline feeding and medication operations, and ensure accurate real-time tracking across all modules.

✅ Key Tasks Completed

1. **🏗️ Feed Stock Management**
    - **Developed backend logic to manage feed stock levels and update quantities after feed distribution.**
    - **Implemented APIs for adding, updating, and tracking feed batches in storage.**

- **Added validation and audit tracking to prevent errors in feed records and maintain consistency.**

2. **🍽️ Parent Fish Feed Management**
    - **Created endpoints to record feeding schedules and quantities for parent fish.**
    - **Enabled automatic deduction of feed quantities from the main stock after each feeding session.**
    - **Designed a structure for recording feeding history to monitor nutrition and track patterns over time.**
3. **💊 Parent Fish Medication Management**
    - **Built backend systems to manage medication data for parent fish.**
    - **Added APIs for logging medication usage, dosage, and treatment timelines.**
    - **Ensured that medication records are securely stored and can be retrieved for each parent fish when needed.**
4. **⚙️ System Integration and Optimization**
    - **Integrated all three modules with the existing parent fish and stock management systems.**
    - **Optimized backend queries for faster data processing and real-time updates.**
    - **Added validations to ensure accuracy in feed and medication records.**

📚 Summary

The backend updates to the Fine Fish Management System provide:

- **🏗️ Reliable feed stock control with real-time inventory tracking.**
- **🍽️ Automated parent fish feeding management, improving efficiency and reducing manual work.**

- 💊 **Structured medication tracking for better fish health management.**
- ⚙️ **Seamless integration between feed, stock, and parent fish modules.**

These improvements make the system more intelligent, accurate, and efficient for managing feeding and medication operations in Fine Fish’s breeding process.