



Daily Work Progress Report

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Position: Backend Developer

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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.