Zoo Management System

- **Module In charge:** Inventory Module

- Technology learned: PHP, XML, HTML, CSS, Design Pattern, HTTPS,

XAMPP, MYSQL

GitHub Link: https://github.com/shuuye/ZooManagementSystem.git

Dashboard Module

The Dashboard provides an overview of the inventory status at a glance. It displays key metrics such as the total inventory count, the number of items currently in stock, those with low stock levels, and items that are completely out of stock. The Dashboard also highlights the number of purchase orders currently being processed and their total cost. Additionally, it tracks recent usage of inventory items, showing details like the item name, the date and time of usage, and the quantity used. This feature ensures that users can quickly assess the overall inventory health and manage stock levels effectively.

Functions Handled:

- Viewing, adding, editing, and deleting inventory items.
- Applying filters to inventory lists.
- Managing item details (ID, name, location, reorder level, and status).

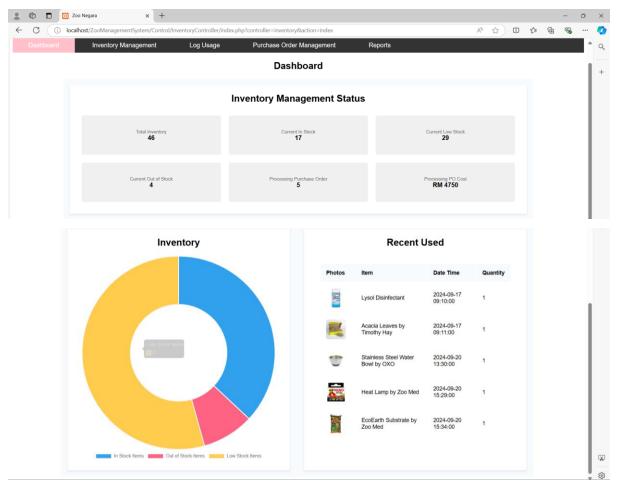


Diagram 2.1.1 Dashboard Interface

Inventory Management Module

The Inventory Management section is designed for detailed management of inventory items. Users can view a comprehensive list of inventory items and apply filters to sort the list according to various criteria. This section also provides functionality for adding new items, editing existing ones, and removing items that are no longer needed. Key details for each inventory item include Inventory ID, Item Name, Item Type, Storage Location, Reorder Threshold, Quantity, and Status (such as In Stock or Low Stock or Out of Stock). This ensures that inventory levels are maintained accurately and efficiently.

Functions Handled:

- Viewing, adding, editing, and deleting inventory items.
- Applying filters to inventory lists.
- Managing item details (ID, name, location, reorder level, and status).

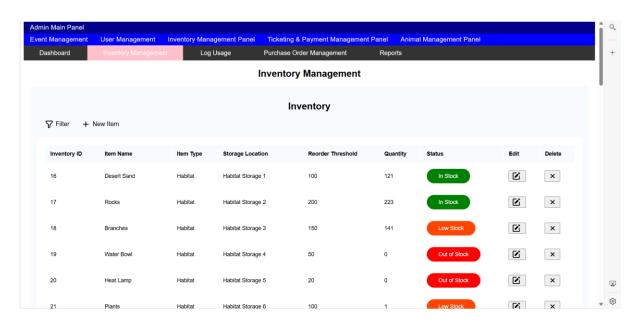


Diagram 2.2.1 Inventory Tracking Interface with Edit and Delete Button

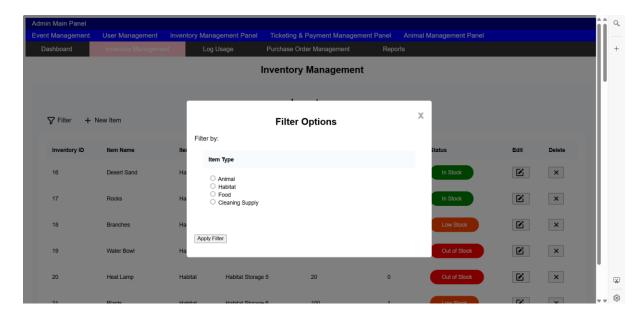


Diagram 2.2.2 Filter Function Interface

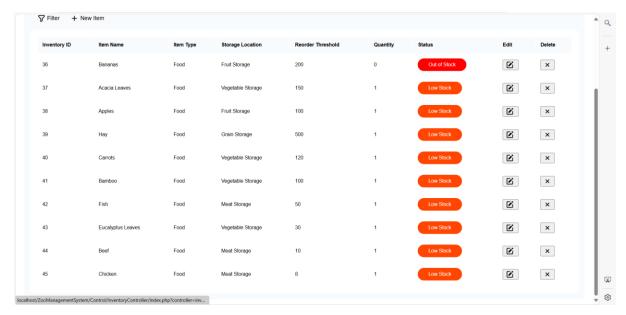


Diagram 2.2.3 After applying filter

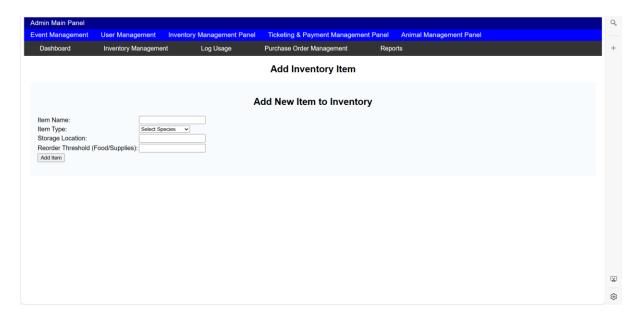


Diagram 2.2.4 Add New Item Interface

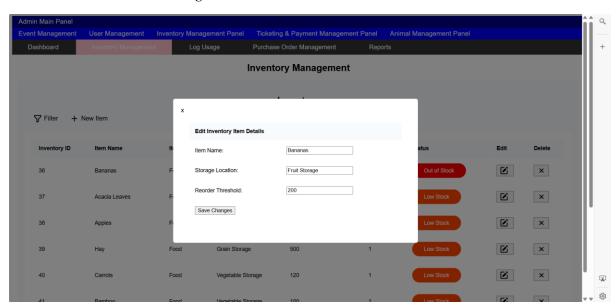


Diagram 2.2.5 Edit Item Interface

Inventory Brand Management Module

In the Inventory Brand Management section, users can handle all aspects related to inventory brands. This includes the ability to add new brands, edit details of existing brands, and remove brands that are no longer relevant. Additionally, users can click the "Create PO" button to create a new purchase order directly from this section. This functionality streamlines the process of managing inventory brands and ensures that stock levels are replenished promptly when needed. The **detailed brand information page** offers a thorough view of each brand's specifics.

Functions Handled:

- Managing inventory brands (add, edit, delete).
- Creating purchase orders from the brand list.

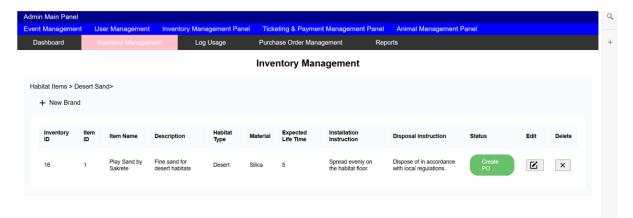


Diagram 2.3.1 Brand Tracking for Habitat Items

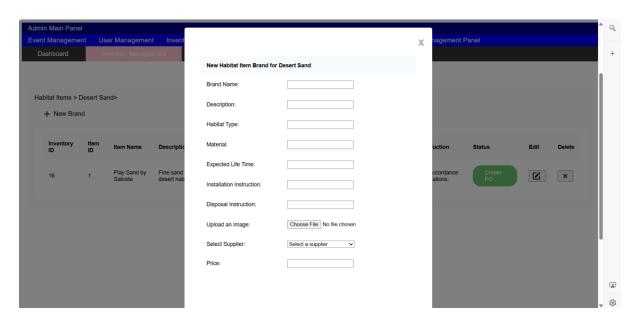


Diagram 2.3.2 Add New Habitat Item Brand

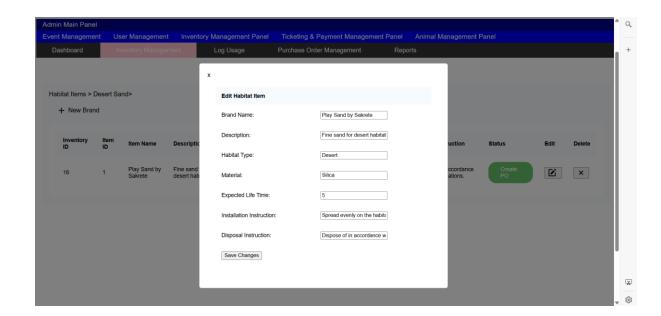


Diagram 2.3.3 Edit Habitat Item Brand Details

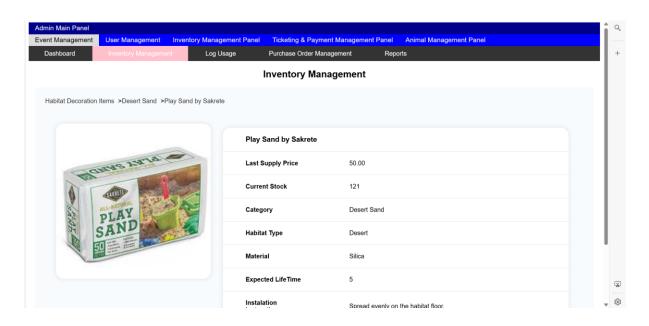


Diagram 2.3.4 View Habitat Brand Details

Purchase Order Management Module

Create Purchase Order function

- facilitates the generation of new purchase orders. Users can select items from the inventory, specify the quantities needed, and review the total cost of the order. The order details section includes selecting a supplier, specifying billing and shipping addresses, choosing the shipping method, and setting preferred shipping dates and times. Once a purchase order is completed, the system automatically updates the inventory quantities to reflect the new stock levels, ensuring accurate inventory records and efficient stock management.

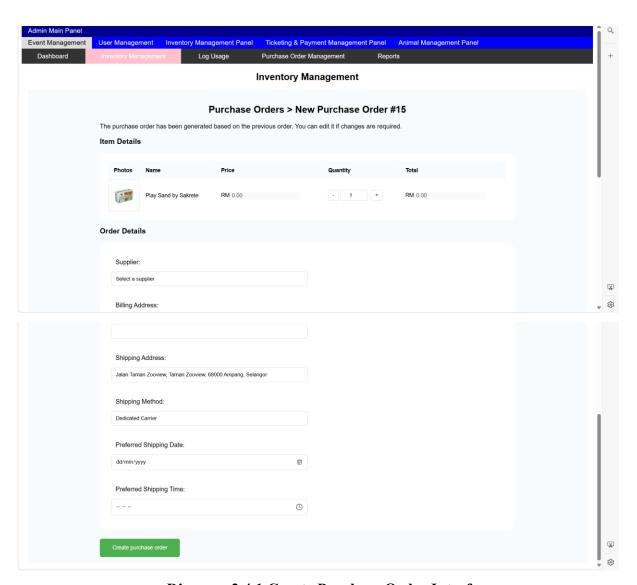


Diagram 2.4.1 Create Purchase Order Interface

Purchase Order Tracking Function

- Provides detailed information about the status of purchase orders. It includes essential details such as the Order Number, Supplier, Created Date, Delivery Date, Billing Address, Amount, and Status (e.g., Draft, Completed or Processing). Users can also view a breakdown of line items within each order, including Inventory ID, Item Name, Quantity, Unit Price, and Sub-Total. This functionality helps users keep track of their orders and ensures that they are aware of the current status and details of each purchase.

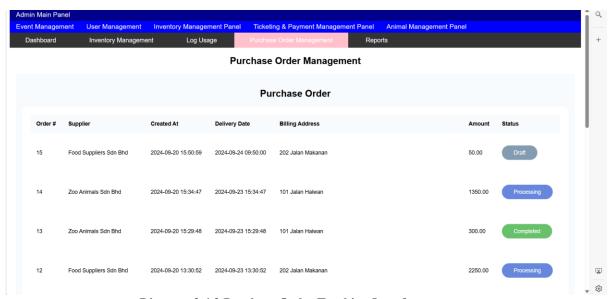


Diagram 2.4.2 Purchase Order Tracking Interface

View Purchase Order Function

- Allow users to access and review detailed information about completed purchase orders. This includes the Purchase Order Number, Status, Addresses, Order Date, and Shipping Date. The item details section lists the items included in the order along with their prices, quantities, and totals. This feature provides a clear view of past orders and facilitates verification and record-keeping. User can also update the status of purchase order by clicking the button on the top right to either change the status from "Draft" to "Processing" or "Processing" to "Completed".

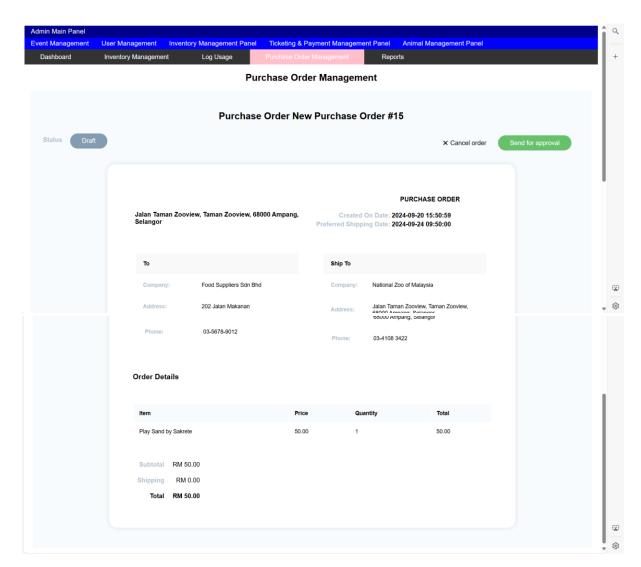


Diagram 2.4.3 View Purchase Order Interface

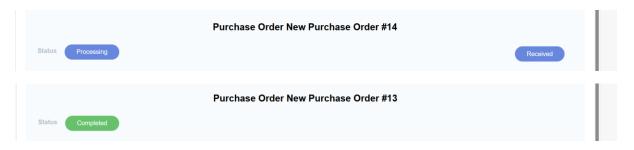


Diagram 2.4.4 Different Function for different Status of Purchase Order

Log Usage

The Log Usage function is used to track and record the usage of inventory items. Users can enter the date and time of usage, select the inventory type and specific item used, and input the quantity used. There is also an optional field to specify the reason for the usage, allowing for detailed tracking and justification of inventory use. This feature helps in monitoring inventory consumption and understanding the reasons behind stock usage. After logging the usage, the quantity of the inventory is checked, if the inventory is out of stock, a new purchase order is generated and sent to the supplier for restocking.

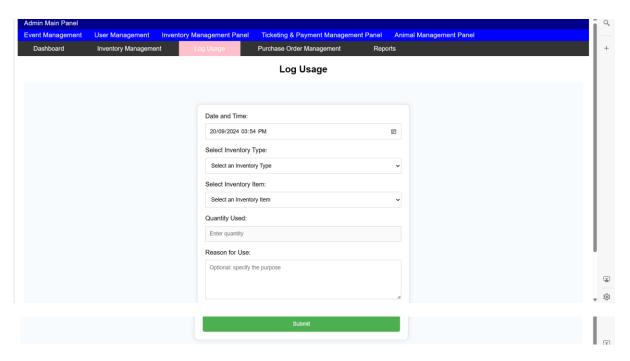


Diagram 2.5.1 Log Usage Interface

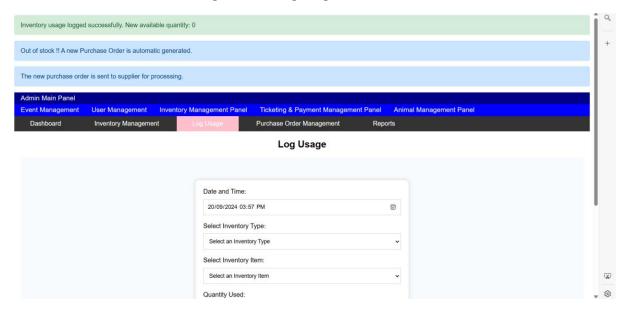


Diagram 2.5.2 Case of Inventory Out of Stock

Reports Module

The Reports section generates various reports to provide insights into inventory and purchase orders. The Inventory Summary Report gives an overview of all inventory items by type, including their status and quantities. The Cleaning Supply Brands Inventory Summary Report details cleaning supplies by brand, size, and quantity. The Habitat Decoration Item Brands Inventory Summary Report covers decoration items by brand and material, while the Food Inventory Summary Report summarizes food items by brand and quantity. The Purchase Order Details report offers in-depth information about purchase orders, including supplier information, order dates, and itemized costs. These reports assist in inventory management and help in making informed decisions based on inventory and purchase data.

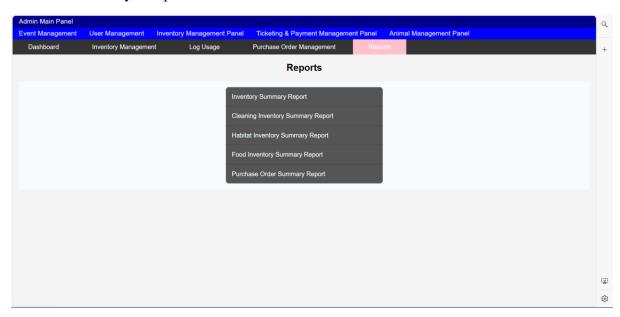
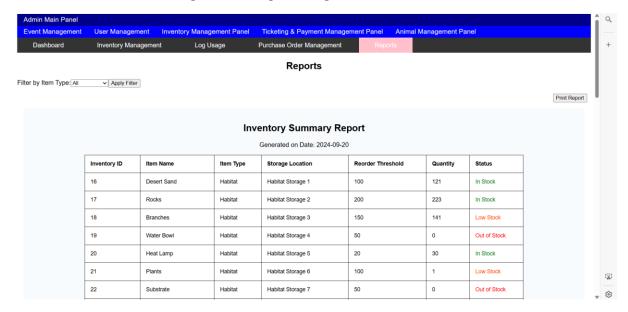


Diagram 2.6.1 Report Navigation Interface



| Total | | | | | 555 | 46 |
|-------|----------|--------|--------------|---|-----|----------|
| 15 | Sparrow | Animal | Aviary | 0 | 1 | In Stock |
| 14 | Toad | Animal | Aquatic | 0 | 1 | In Stock |
| 13 | Bear | Animal | Forest | 0 | 1 | In Stock |
| 12 | Parrot | Animal | Aviary | 0 | 1 | In Stock |
| 11 | Newt | Animal | Aquatic | 0 | 1 | In Stock |
| 10 | Koala | Animal | Enclosure 10 | 0 | 1 | In Stock |
| 9 | Penguin | Animal | Enclosure 9 | 0 | 1 | In Stock |
| 8 | Panda | Animal | Enclosure 8 | 0 | 1 | In Stock |
| 7 | Kangaroo | Animal | Enclosure 7 | 0 | 1 | In Stock |

Diagram 2.6.2 Inventory Summary Report

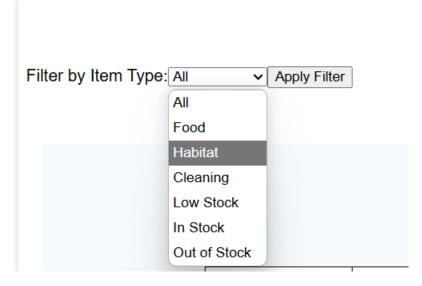


Diagram 2.6.3 Inventory Summary Report Filter Choice

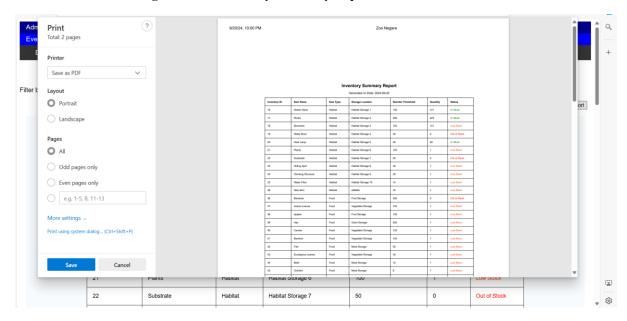


Diagram 2.6.4 Printing Function



Diagram 2.6.6 Cleaning Supply Brand Inventory Summary Report

| | | | | P | urchas | e Order D | etails | S | | | | | |
|----------|----------------------------------|----------------------------|----------------------------|---|-----------------|---------------|--------------------|-----------------|-----------------------------|----------|---------------|----------------|--|
| | | | | | Generated | on Date: 2024 | -09-20 | | | | | | |
| PO ID | Supplier ID | Order Date | Delivery Date | Billing Address | Total Amount | Status | Line Item ID | Inventory ID | Item Name | Quantity | Unit Price | Sub- Total: | |
| 1 | Animal | 2024-08- | 2024-08- | No. 12, Jalan Kuning, Taman | 750.00 | 0 | 1 | 33 | Scotch-Brite Scrub Brush | 10 | 50.00 | 500 | |
| 1 | Supplies Sdn Bhd | 01 00:00:00 | 00:00:00 | Melawati, 53100 Kuala Lumpur, Malaysia | 750.00 | Completed | 5 | 26 | Lysol Disinfectant | 5 | 50.00 | 250 | |
| 2 | Cleaning Solutions Sdn Bhd | 2024-08- 10 00:00:00 | 2024-08- 15 00:00:00 | No. 78, Jalan Intan, 81000 Johor Bahru, Johor, Malaysia | 750.00 | Completed | 4 | 27 | Tide Detergent | 25 | 30.00 | 750 | |
| 3 | Habitat Builders Sdn Bhd | 2024-08- 15 00:00:00 | 2024-08- 21 00:00:00 | No. 34, Jalan Bukit, 11300 Penang, Malaysia | 450.00 | Processing | 3 | 34 | O-Cedar Mop | 15 | 30.00 | 450 | |
| 5 | Habitat Builders Sdn Bhd | 2024-08- 15 00:00:00 | 2024-08- 21 00:00:00 | No. 78, Jalan Cendana, 11900 Bayan Lepas, Penang, Malaysia | 400.00 | Processing | 2 | 30 | Windex Glass Cleaner | 20 | 20.00 | 400 | |
| 6 | Food Suppliers | 2024-09- | 2024-09- 27 | 202 Jalan | 5000.00 | Completed | 6 | 16 | Play Sand by | 100 | 50.00 | 5000 | |

| | ppliers | 2024-09- 16 12:12:57 | 2024-09- 21 10:12:00 | 202 Jalan Makanan | 1450.00 | Completed | 9 | 16 | Play Sand by Sakrete | 29 | 50.00 | 1450 |
|----------------------|----------|----------------------------|----------------------------|----------------------|---------|------------|----|-------|---|-----|-----------|-------------|
| 10 Suj Sdi | ppliers | 2024-09- 17 09:09:46 | 2024-09- 21 15:09:00 | 202 Jalan Makanan | 6000.00 | Completed | 10 | 17 | Decorative Rocks by Vigoro | 200 | 30.00 | 6000 |
| For 11 Suj Sdi | ppliers | 2024-09- 17 09:13:37 | 2024-09- 21 15:14:00 | 202 Jalan Makanan | 6300.00 | Completed | 11 | 18 | Natural Branches by Petco | 140 | 45.00 | 6300 |
| | ppliers | 2024-09- 20 13:30:52 | 2024-09- 23 13:30:52 | 202 Jalan Makanan | 2250.00 | Processing | 12 | 19 | Stainless Steel Water Bowl by OXO | 60 | 45.00 | 2700 |
| | nimals | 2024-09- 20 15:29:48 | 2024-09- 23 15:29:48 | 101 Jalan Halwan | 300.00 | Completed | 13 | 20 | Heat Lamp by Zoo Med | 30 | 15.00 | 450 |
| | nimals | 2024-09- 20 15:34:47 | 2024-09- 23 15:34:47 | 101 Jalan Haiwan | 1350.00 | Processing | 14 | 22 | EcoEarth Substrate by Zoo Med | 60 | 27.00 | 1620 |
| 15 Suj Sdi | ppliers | 2024-09- 20 15:50:59 | 2024-09- 24 09:50:00 | 202 Jalan Makanan | 50.00 | Draft | 15 | 16 | Play Sand by Sakrete | 1 | 50.00 | 50 |
| 16 Sol | olutions | 2024-09- 20 15:57:00 | 2024-09- 23 15:57:00 | 456 Jalan Bersih | 1000.00 | Processing | 16 | 26 | Lysol Disinfectant | 30 | 50.00 | 1500 |
| | ' | | | | | | | Total | 16 | 748 | RM 602 | RM 26740 |

Diagram 2.6.5 Purchase Order Details Report