

1. Inventory Items List

A detailed record of all barangay-owned assets such as chairs, tents, medical supplies, and equipment. Each item includes description, quantity, and unique identification if applicable.

2. Stock Tracking

Continuous monitoring of the number of items currently available, the quantity issued for use, and the quantity returned or still outstanding.

3. Issuance Records

A log that records when items are released, who received them (name and position), purpose (event, emergency, operation), and expected return date if applicable.

4. Maintenance/Condition Status

Documentation of the physical state of inventory items, noting items that are damaged, need repair, or are beyond repair for proper action.

5. Expenses/Disbursement Tracking

Detailed recording of all financial transactions related to inventory, including:

- Purchase dates, amounts spent (ginastos), vendors/suppliers, and payment status.
- Categorization of expenses (operational, event-related, disaster relief, capital expenditures).
- Expense details such as item/service description, quantity, unit cost, and total cost.
- Payment methods and supporting documents (receipts, invoices).
- Annual budgeting and financial tracking including:
 - Budget allocations per category.
 - Actual spending vs. budget.
 - Barangay income/revenue (permits, fees).
 - Net income or deficit (revenue minus expenses).
- Regular monitoring through monthly, quarterly, and annual expense reports to identify spending trends and pending payments.
- Integration with inventory management to link expenses directly to purchased inventory items and usage.

6. Reports

Regularly generated summaries and detailed reports showing current inventory levels, item usage history, maintenance needs, and financial expenditures to assist in decision-making.

FOR BRGY INVENTORY (brgy_inventory) structure

Field Name	Data Type	Description	Notes
inventory_id	INT (PK)	Unique ID for each inventory item	Auto-increment
item_name	VARCHAR(255)	Name of the inventory item	
description	TEXT	Detailed description of the item	
quantity_total	INT	Total quantity owned by the barangay	
quantity_available	INT	Quantity currently available	
unit	VARCHAR(50)	Unit of measurement (e.g., pcs, boxes)	
condition_status	ENUM	Item condition (e.g., 'Good', 'Damaged', 'Needs Repair')	Enum values to restrict input
last_maintenance_date	DATE	Date when item was last maintained	Nullable
unique_identifier	VARCHAR(100)	Optional unique code/serial number for the item	Nullable
created_at	DATETIME	Timestamp when the record was created	
updated_at	DATETIME	Timestamp when the record was last updated	

FOR BRGY ISSUANCE (brgy_issuance) structure

Field Name	Data Type	Description	Notes
issuance_id	INT (PK)	Unique ID for each issuance record	Auto-increment
inventory_id	INT (FK)	References brgy_inventory.inventory_id	Foreign key constraint
issued_to	VARCHAR(255)	Name of the person who received the item	
position	VARCHAR(100)	Position or role of the receiver	
purpose	VARCHAR(255)	Reason for issuance (event, emergency, operation)	
quantity_issued	INT	Number of items issued	
date_issued	DATE	Date when items were issued	
expected_return	DATE	Expected return date if applicable	Nullable
date_returned	DATE	Actual return date if applicable	Nullable
remarks	TEXT	Notes about the issuance	Nullable

FOR BRGY EXPENSES (brgy_expenses) structure

Field Name	Data Type	Description	Notes
expense_id	INT (PK)	Unique ID for each expense	Auto-increment
inventory_id	INT (FK)	Related inventory item (if applicable)	Nullable
expense_category	ENUM	Category (Operational, Event, Relief, Capital)	Predefined enum values
description	TEXT	Details about the expense	
quantity	INT	Quantity of items purchased	Nullable
unit_cost	DECIMAL(12,2)	Cost per item	Nullable
total_cost	DECIMAL(12,2)	Total amount spent	
vendor	VARCHAR(255)	Supplier or vendor name	
payment_method	VARCHAR(100)	Payment type (Cash, Check, etc.)	
purchase_date	DATE	Date when purchase/payment was made	
receipt_document	VARCHAR(255)	Filepath or reference to receipt or invoice	Nullable
created_at	DATETIME	Timestamp when the record was created	
updated_at	DATETIME	Timestamp when the record was last updated	

TABLE STRUCTURE FOR EACH FEATURE (fields and purpose)

1. Inventory Items List

✅ Purpose:

Maintain a complete list of all items owned by the barangay.

⚙️ Fields to Use/Display:

- inventory_id (unique identifier)
- item_name (e.g., Plastic Chair, Tarp)
- item_type (e.g., Equipment, Medical, Utility)
- description
- quantity_total
- quantity_available
- unit (e.g., pcs, box)
- acquisition_date
- status (Active, Archived)

⚙️ Functionality to Implement:

- CRUD (Create, Read, Update, Delete)
- Search/filter by name/type
- Track total vs. available quantity
- Tag old or disposed items

2. Stock Tracking

✅ Purpose:

Monitor how many items are in stock, issued, returned, or used up.

⚙️ Fields to Use/Display:

- inventory_id
- item_name

- quantity_total
- quantity_issued (from issuance table, calculated)
- quantity_returned (calculated)
- quantity_available = quantity_total - quantity_issued + quantity_returned

⚙️ **Functionality to Implement:**

- Auto-update stock when items are issued or returned
 - Display real-time stock count
 - Visual indicators for low stock
 - Optional: stock adjustment (manual override)
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3. Issuance Records

✅ **Purpose:**

Track when and to whom inventory items are issued and for what purpose.

✂️ **Fields to Use/Display:**

- issuance_id
- inventory_id (linked to item)
- item_name (from inventory)
- issued_to (e.g., Barangay Staff, Tanod)
- position (e.g., SK Chairperson, Tanod)
- purpose (e.g., Outreach Program, Emergency Use)
- quantity_issued
- date_issued
- expected_return
- date_returned (nullable)
- remarks

⚙️ **Functionality to Implement:**

- Issue item and reduce stock

- Mark returned and increase stock
 - Show overdue returns (based on expected return)
 - Audit history per item
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4. Maintenance / Condition Status

✓ Purpose:

Ensure all inventory is in working condition and track damaged or repaired items.

⚙ Fields to Use/Display:

- inventory_id
- item_name
- condition_status (Good, Needs Repair, Damaged)
- last_checked_date
- notes (explanation of damage or issue)
- Optional: repair_date, repair_cost

⚙ Functionality to Implement:

- Update condition per item
 - Alert for items needing repair
 - Filter items by condition
 - Optional: track repair history/logs
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5. Expenses / Disbursement Tracking

✓ Purpose:

Track all spending related to barangay inventory and supplies.

⚙ Fields to Use/Display:

- expense_id
- inventory_id (nullable if general expense)
- item_name (if linked)
- expense_category (e.g., Capital, Event, Relief, Operational)

- description (e.g., "Purchased 100 chairs")
- quantity
- unit_cost
- $\text{total_cost} = \text{quantity} * \text{unit_cost}$
- vendor
- payment_method (Cash, Check, etc.)
- purchase_date
- receipt_document (filename/path)
- status (Paid, Pending)

⚙️ **Functionality to Implement:**

- CRUD expense entries
 - Calculate total costs
 - Link to inventory for traceability
 - Filter by date, category, vendor
 - Upload/view receipts
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6. Reports

✅ **Purpose:**

Generate summarized data for decision-making, budgeting, and auditing.

✂️ **Reports to Include:**

1. Inventory Summary

- Total items
- Stock per item
- Low-stock warnings

2. Issuance Report

- Most borrowed items
- Items issued per month/event
- Outstanding (not returned) items

3. Condition Report

- Items needing repair
- Repair history

4. Expense Report

- Total expenses by month/year
- Breakdown by category (Event, Relief, etc.)
- Vendor summary (how much spent per supplier)

Functionality to Implement:

- Filters (by date range, item, category)
- Export to PDF/Excel (optional)
- Graphs (optional but useful for presentations)
- Automated report generation (monthly/quarterly)