

```

# Add Item
def add_item(item_id, name, price, quantity):
    inventory[item_id] = {"name": name, "price": price, "quantity":
        quantity}
    print(f"{name} added!\n")

# Update Item
def update_item(item_id, quantity):
    if item_id in inventory:
        inventory[item_id]["quantity"] = quantity
        print(f"Item {item_id} updated!\n")
    else:
        print("Item not found!\n")

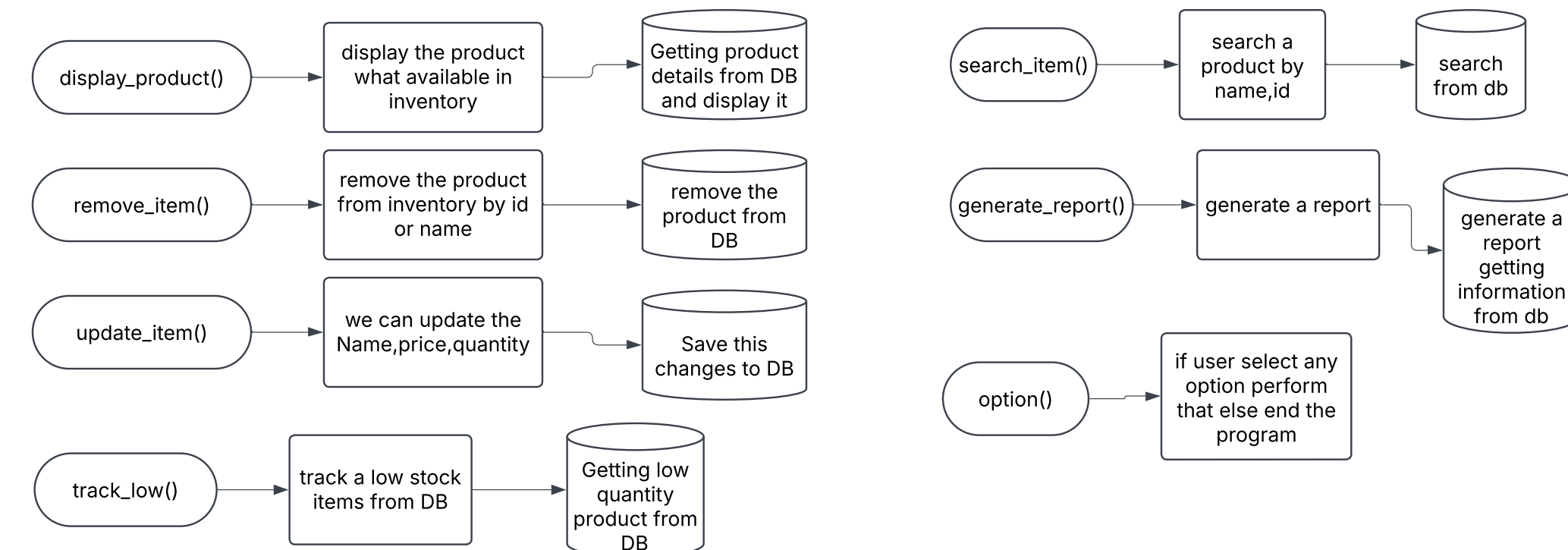
# Remove Item
def remove_item(item_id):
    if item_id in inventory:
        del inventory[item_id]
        print(f"Item {item_id} removed!\n")
    else:
        print("Item not found!\n")

# Search Item
def search_item(search):
    for item_id, details in inventory.items():
        if item_id == search or details["name"].lower()
            == search.lower():
            print(f"Found - {details}\n")
            return
    print("Item not found!\n")

# Display Inventory
def display_inventory():
    print("\nCurrent Inventory:")
    for item_id, details in inventory.items():
        print(f"ID: {item_id}, {details}")
        print()

# Track Low Stock Items
def track_low(threshold=5):
    print("\nLow Stock Items:")
    for item_id, details in inventory.items():
        if details["quantity"] <= threshold:
            print(f"ID: {item_id}, {details}")
            print()

```



```

# Function to show options and perform actions
def menu():
    while True:
        print("\nInventory Management System")
        print("1. Add Item")
        print("2. Update Item")
        print("3. Remove Item")
        print("4. Search Item")
        print("5. Display Inventory")
        print("6. Track Low Stock Items")
        print("7. Generate Inventory Report")
        choice = input("Enter your choice: ")
        if choice == "1":
            add_item()
        elif choice == "2":
            update_item()
        elif choice == "3":
            remove_item()
        elif choice == "4":
            search_item()
        elif choice == "5":
            display_inventory()
        elif choice == "6":
            track_low_stock()
        elif choice == "7":
            print("Generating inventory report...\n")
        else:
            print("Invalid choice! Exiting program...\n")
            break

```