**Inventory Management System User Guide**

# 1. System Overview

This document serves as a guide for the Inventory Management System designed for managing inventory data through a simple console application. The system allows users to insert, read, update, and delete data from an Access database, utilizing C# and the OleDb data provider.

# 2. Getting Started

Requirements: Microsoft .NET Framework, Microsoft Access. Ensure that Microsoft Access Database Engine is installed to use OleDb with Access databases.

Installation and Setup Instructions: Extract the program files to your desired location and ensure the database path in the connection string is correct.

Starting the Program: Run the executable file from the bin/Debug folder to start the program.

# 3. User Interface

Upon launching the application, you will be greeted with a console menu that offers the following options: Inserting data, Reading data, Updating data, Deleting data, and Exiting the program. Users can navigate the menu by entering the number corresponding to their choice.

# 4. Operations Guide

## Inserting Data

Use this function to add new records to the database. Provide a valid SQL 'INSERT' statement when prompted.

## Reading Data

This function allows you to view data from the database. Provide a valid SQL 'SELECT' statement when prompted to retrieve data.

## Updating Data

Use this function to modify existing records in the database. Provide a valid SQL 'UPDATE' statement when prompted.

## Deleting Data

This function allows you to remove records from the database. Provide a valid SQL 'DELETE' statement when prompted.

# 5. Troubleshooting and FAQs

Common issues include database connection errors which can often be resolved by checking the database path in the connection string. For further support, contact the system administrator.

# 6. Appendix

Sample SQL Commands:   
INSERT INTO Table (Column) VALUES (Value);   
SELECT \* FROM Table;   
UPDATE Table SET Column = Value WHERE Condition;   
DELETE FROM Table WHERE Condition;

Security Considerations: Ensure the database file is stored securely and access is restricted to authorized users only.