# 1. Project Overview

## 1.1 Project Name

Inventory management system

## 1.2 Project Description

A system that allows a user to manage stock by adding new products, updating quantity and price, as well as removing a product from the system

## 1.3 Objectives and Goals

1. Add products to the system
2. Update products price and quantity
3. View all products and quantities
4. Remove product from inventory

# 2. Requirements Gathering

## 2.1 Functional Requirements

* Add item to system – Allow users to input items into the system
* Update Quantity – Allow users to adjust the quantity of the items
* Update Price - Allow users to adjust the price of the items
* View all Items with Quantity – Lists all the items with the quantity
* Remove Item from system – Allow users to remove an item from the system

## 2.2 Non-Functional Requirements

* Performance: Quickly display choices for users to pick from as well as quickly display all items when selecting view all items
* Security: None required for this application.
* Usability: Console based application, users will input data directly into the console.
* Scalability: Program will be used by a single user at a time.

# 3. System Architecture

## 3.1 High-Level Architecture

1. Add Item Module
   1. Add Item
   2. Add Quantity
   3. Add Price
2. Update Item Module
   1. Update Item Name
   2. Update Item Quantity
   3. Update Item Price
3. View Item Module
   1. Show a list of all items and the quantity
4. Remove Item Module
   1. Remove the item, price, and quantity from the system

A diagram of a process

AI-generated content may be incorrect.