

## **Milestone 1**

Ian M. McConihay

College of Science, Engineering and Technology, Grand Canyon University

CST-150: C# Programming I

Mark Smithers

August 25, 2024

**Video Link:**

<https://www.loom.com/share/7ee0781702bb40bfba6695eb57f4bca1?sid=e81755b5-ccd4-46a1-a4d0-c532083b4e36>

**Github:** <https://github.com/Ian-McConihay/CST-150>

What was challenging?

Accounting for all the items outside of development.

What did you learn?

I learned about the meanings behind different flowchart symbols and ui designs for Winforms applications.

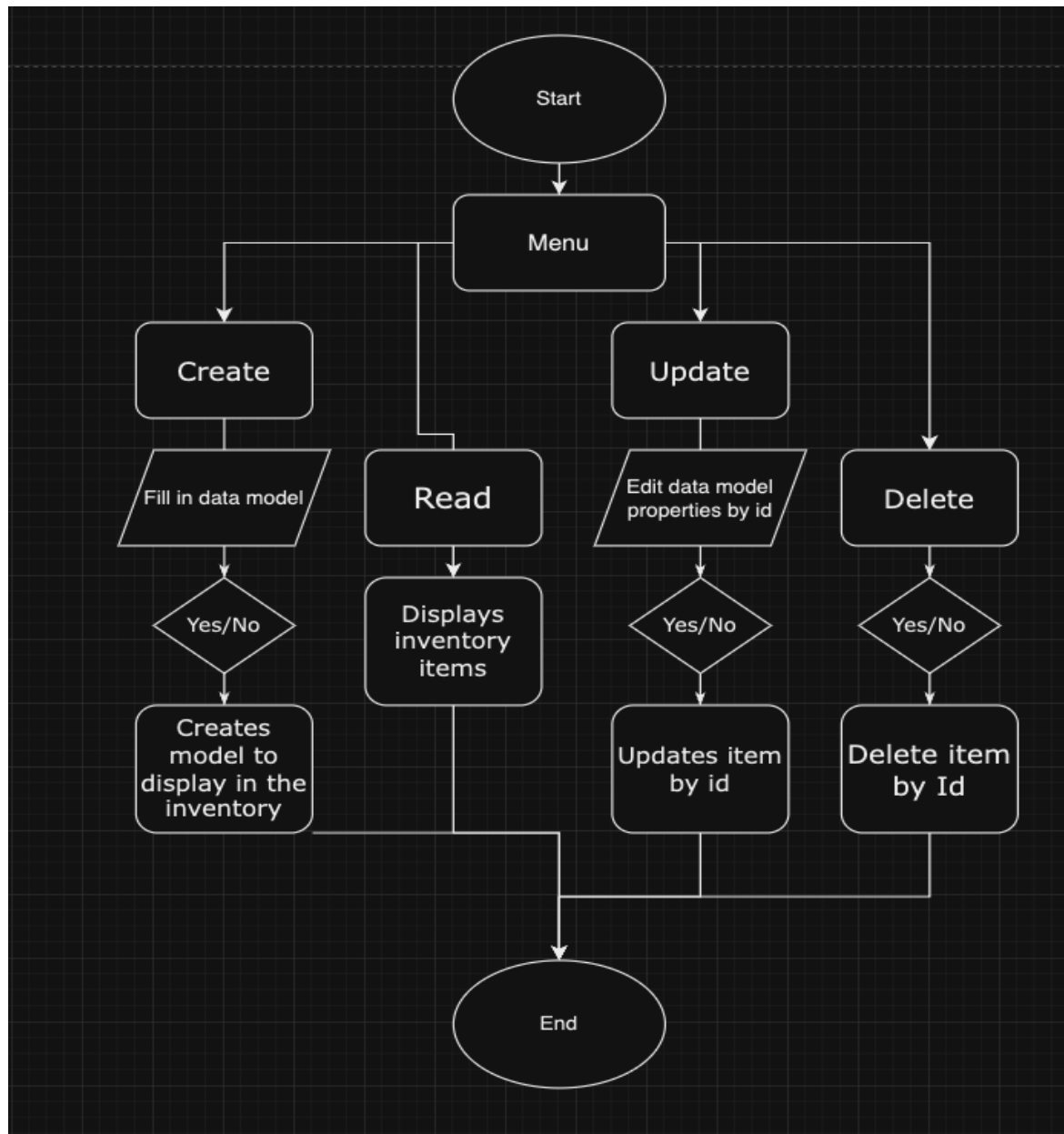
How would you improve on the project?

Just increasing my scope of understanding on all aspects of the application. I will know better by the next milestone.

How can you use what you learned on the job?

Flowcharts are an excellent way to create knowledge transfer documents for any proceeding developers coming to an application.

Figure 1: FlowChart



The start of this application will open up to a selection menu to allow for basic CRUD operations for the user. A create form to add new items to the inventory. A Read/Search

function to sort through the inventory. An update option where the user can grab an item and modify it. Finally, a delete form to allow the removal of items from the inventory.

Figure 2: UML InventoryItem

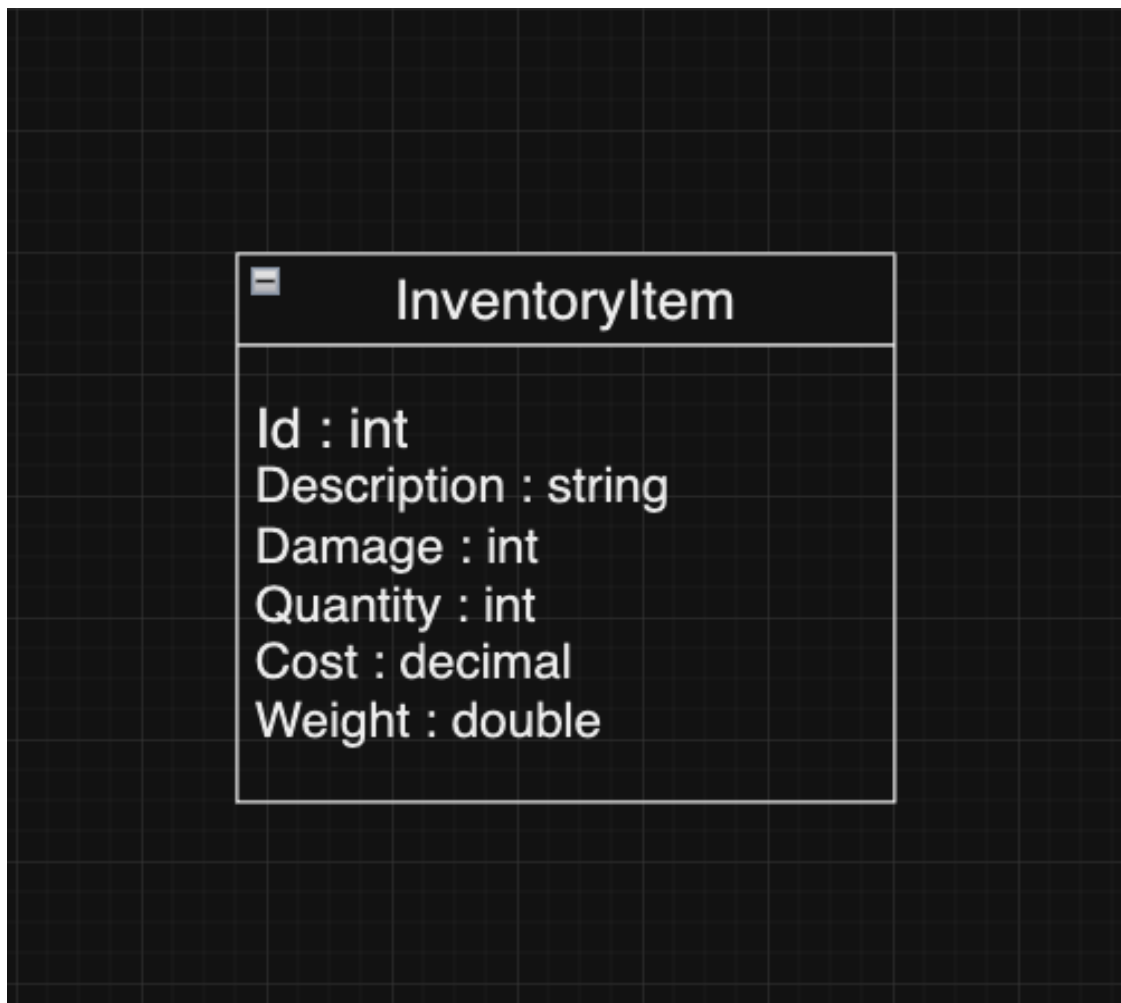


Figure 3: Wireframe

The wireframe illustrates the initial design for an inventory application, organized into three main functional sections: Search, Update, and Add. Each section is represented by a table with five columns: Description, Damage, Quantity, Cost, and Weight. To the left of each table is a vertical container for user interaction, featuring a button and three input fields.

Search					
	Description	Damage	Quantity	Cost	Weight
Search					
Search Field					
Search Field					
Search Field					

Update					
	Description	Damage	Quantity	Cost	Weight
Update					
Update Field					
Update Field					
Update Field					

Add					
	Description	Damage	Quantity	Cost	Weight
Add					
Add Field					
Add Field					
Add Field					

Here is the goal for the initial design for the inventory application. We will be using a table of columns to display inventory item information. On the left-hand side will be the functionality provided to the user with fields. The fields will be for the different CRUD options available to the user's home menu.

## Bug Reports

Bug Report

Class name

Method name :

Steps to reproduce the bug:

Expected results

Actual results

details: N/A for milestone 1

Solution

1. List your computer specs (type of computer, OS, memory, etc)

Device name DESKTOP-IAQ5CCD

Processor Intel(R) Core(TM) i5-8265U CPU @ 1.60GHz 1.80 GHz

Installed RAM 8.00 GB (7.88 GB usable)

Device ID A0AC8D02-4885-4491-B27B-B40F0A0D2E35

Product ID 00356-02139-31547-AAOEM

System type 64-bit operating system, x64-based processor

Pen and touch Touch support with 10 touch points

2. Create 3 test cases

3. List 3 Programming conventions that will be used all milestones

Naming, Format, and Documentation Conventions

4. Create Use case diagram

Monday

Start: 900pm End: 9:30pm Activity: Read announcements

Start: 930pm End: 1030 Activity: DQ1 and DQ 2

Start: 1030pm End: 1100pm Activity: Read Book

Tuesday

Start: 900pm End: 9:30pm Activity: Participation post

Start: 930pm End: 1030 Activity: Activity

Start: 1030pm End: 1100pm Activity: Read Book

Wednesday

Start: End: Activity: N/A

Start: End: Activity: N/A

Start: End: Activity: N/A

Thursday

Start: 900pm End: 9:30pm Activity: Participation post

Start: 930pm End: 1030 Activity: Activity

Start: 1030pm End: 1100pm Activity: Read Book

Friday

Start: 900pm End: 9:30pm Activity: Participation post

Start: 930pm End: 1030 Activity: Milestone

Start: 1030pm End: 1100pm Activity: Read Book

Saturday

Start: 900pm End: 9:30pm Activity: Participation post

Start: 930pm End: 1030 Activity: Milestone

Start: 1030pm End: 1100pm Activity: Read Book

Sunday

Start: 900pm End: 9:30pm Activity: Participation post

Start: 930pm End: 1030 Activity: Milestone

Start: 1030pm End: 1100pm Activity: Read Book

ADD ON.

address: 1033 S Fort Hood St, Killeen, TX 76541

hours of operation:

Thursday 8 AM–8 PM

Friday 8 AM–8 PM

Saturday 8 AM–8 PM

Sunday 8 AM–8 PM

Monday 8 AM–8 PM

Tuesday 8 AM–8 PM

Wednesday 8 AM–8 PM

walk in or by appointment

appointment

# of tutors that can assist you in this class 4

pick 2 tutors that can help you

tutor 1 name: Monique

tutor 1 email:

tutor 1 schedule:

Monday

2:00 AM–12:00 AM

Wednesday

2:00 AM–12:00 AM

Friday

2:00 AM–12:00 AM

Saturday

4:00 PM–12:00 AM

Sunday

9:30 AM–7:00 PM

tutor 2 name: Aiesha

tutor 2 email:

tutor 2 schedule: Anytime

-----  
Locate an online tutoring service

Service Name: Tutor.com

Website: tutor.com

Walk-in or By Appointment: By appointment



Number of Tutors Available: The number of tutors varies by subject, but Tutor.com offers a large network of tutors available 24/7. For a specific number of tutors for your class, you would need to check directly on their platform or contact their support.

I would need to set up an account

pick 2 tutors that can help you

tutor 1 name

tutor 1 email

tutor 1 schedule

tutor 2 name:

tutor 2 email:

tutor 2 schedule

-----

Please also answer the follow questions below

What grade do I want in this class?

A.

How many hours have I set aside to study? what are the days and times?

2 hours Monday through Sunday between 9-11pm.

How many hours have I set aside to work on projects per day? what are the days and time?

2 hours Monday through Sunday between 9-11pm.

Have you notified friends, family, supervisors, coworker of your decision to study and need to set aside time to study and work on projects?

My family.

Have you located tutoring online and offline, hours of operation and number of tutors that can assist you with your subject matter?

I have.

#### ADD ON

- Find and List 3+ inventory applications on the market: do a simple internet search
  1. Zoho Inventory
  2. Fishbowl Inventory
  3. Cin7
- List 5+ features of the inventory application
- Real-Time Inventory Tracking: Keeps track of inventory levels in real-time, ensuring that stock information is always up to date.
- Order Management: Allows users to manage orders from multiple sales channels, automate order processing, and handle shipping and fulfillment.

- **Barcode Scanning:** Supports barcode scanning to speed up inventory management tasks, such as receiving, picking, and stocktaking.
- **Reports and Analytics:** Provides detailed reports and analytics on inventory performance, sales trends, and stock levels, aiding in data-driven decision-making.
- **Integration with Other Systems:** Integrates with accounting software, e-commerce platforms, and point-of-sale (POS) systems, providing a seamless workflow across various business operations.
- **What is inventory**

Goods, products, or materials that a business holds for the purpose of resale, production, or utilization in the provision of services.

- **How is it useful**

Customer demand can be met with financial management due to optimizing storage.

- **list example information that can be stored in inventory**

**Product Name and Description:** Basic details about the item, including its name, model, and a brief description.

**Item Number:** A unique identifier for each product or item, used to track inventory.

**Supplier Information:** Details about the supplier of the item, including contact information and order history.

- **what is the most important information stored in inventory? Why?**

Quantity on Hand is arguably the most important information stored in an inventory system.

Knowing the exact quantity of each item available is crucial because it prevents stockouts, causes accurate ordering, and helps with financial planning.