



## **Delivery 2 Assignment**

### **Initial Functionality Implementation**

As part of our ongoing project on the Inventory Management System, the second delivery milestone is approaching. For this delivery, you are required to implement the following functionalities:

#### **1. Add to Cart Functionality:**

Create the functionality to add a product to the shopping cart.

#### **2. Remove from Cart Functionality:**

Develop the functionality to remove a product from the shopping cart.

#### **3. Undo Remove from Cart Functionality:**

Implement the undo functionality for removing a product from the cart.

#### **4. Display Cart Functionality:**

Create the functionality to display the shopping cart to the user.

#### **Instructions:**

- Implement each functionality separately in a modular manner.
- Utilize appropriate data structures as specified for each functionality.
- Test each functionality thoroughly to ensure correctness and efficiency.
- Document your code comprehensively, including function descriptions, parameter details, and any assumptions made.
- Ensure that your implementation adheres to best practices of coding standards and efficiency.

#### **Deadline for Submission:**

- Please submit your implementation by the deadline date. Late submissions will be subject to penalties as per the course policy.

#### **Submission Guidelines:**

- Submit the source code files containing the implementation of each functionality.
- Include a brief report documenting the functionalities implemented, data structures used, and any challenges faced during the implementation process.

#### **Note:**

This delivery will serve as the final draft for our Inventory Management System project. **Please implement Part 2 and ensure it's fully integrated with Part 1** before the final submission.

If you encounter any difficulties or have any questions, feel free to reach out to the instructor for assistance.

**Good luck!**