**CSCI 370 Software Engineering (Section 46)**

**Group #2**

**Part A – Group Grade**

**Project Name:** Grocery Warehouse Tracking

**Project Description:**

Our goal is to develop software that will allow grocery warehouses to keep track of product inventory as well as track incoming orders and item fulfillment requests from Whole Foods, track when an order from inventory will be shipped to the grocery store, and the overall invoices from each order.

**Group Project Members**

Student Name(s):

Team Captain: 1) Tasfia Hossain

2) Yudava Roopnarine

3) Ivan Jimenez

4) Rakib Rary

5) Samuel Orellana

6) Matthew Murillo

7) Kevin Ren

**The project is divided as follows:**

**Part B – Group Grade - Requirements/Specification 10%**

Typically, one group member oversees requirements/specifications.

Student Name(s):

1. Samuel Orellana

**Part C – Group Grade Project Diagram 10%**

You must include one process flowchart diagram (see figure 1 below) that provides a high-level overview of the whole project beside the User Context diagram.

List of Design Patterns(s) with the student who will be implementing it:

1) Samuel Orellana - Singleton

2) Tasfia Hossain - Memento

3) Ivan Jimenez - Observer

4) Kevin Ren - Strategy

5) Rakib Rary - Iterator

6) Yudava Roopnarine - Builder

7) Matthew Murillo - Factory

**Part D – Individual Grade** 50% In addition, each design pattern requires:

1. a separate document with the name of a group member.
2. the design pattern name,
3. a UML document showing the concrete classes that implement the design pattern (see Figure 2 below), and
4. Just the code that implements your chosen design pattern using the Java coding standard. Just the design pattern code. Should be one or two pages (multiple classes are ok)
5. The design patterns must be part of the group project written in Java.
6. You do not need to implement all the code. Those parts of the project that don’t have design patterns can be mocked up.

Your group must implement as many design patterns as there are members of each group. So, for example, a group with five members must complete five design patterns.

**Part E Individual Grade** 10%

**Unit and Component Test Plan**

Two unit tests and one component test per group member.

**Part F Individual 20%**

**Presentation**

Each team member presents their design pattern portion of the project.

**Process Flowchart Diagram**

Diagram

Description automatically generated

**Journey Flowchart Diagram**

Diagram

Description automatically generated