



Individual Project – Stock Management System

INDIVIDUAL ASSIGNMENT

COMP40003

Software Development & Application Modelling– 02

CF2321COM

**Prepared by:
Lithira Silva – CB012023**

**Date of submission:
29/09/2023**

**Instructor:
Dr. Upul Rathnayake**

Contents

Table of figures.....	3
Test Case Table	4
Diagrams	5
Activity diagrams.....	5
Sequence diagrams	7
Class diagram	9
UML diagram.....	10

Table of figures

ACTIVITY DIAGRAM 1	5
ACTIVITY DIAGRAM 2	6
SEQUENCE DIAGRAM 1	7
SEQUENCE DIAGRAM 2	8
CLASS DIAGRAM 1	9
UML DIAGRAM 1	10

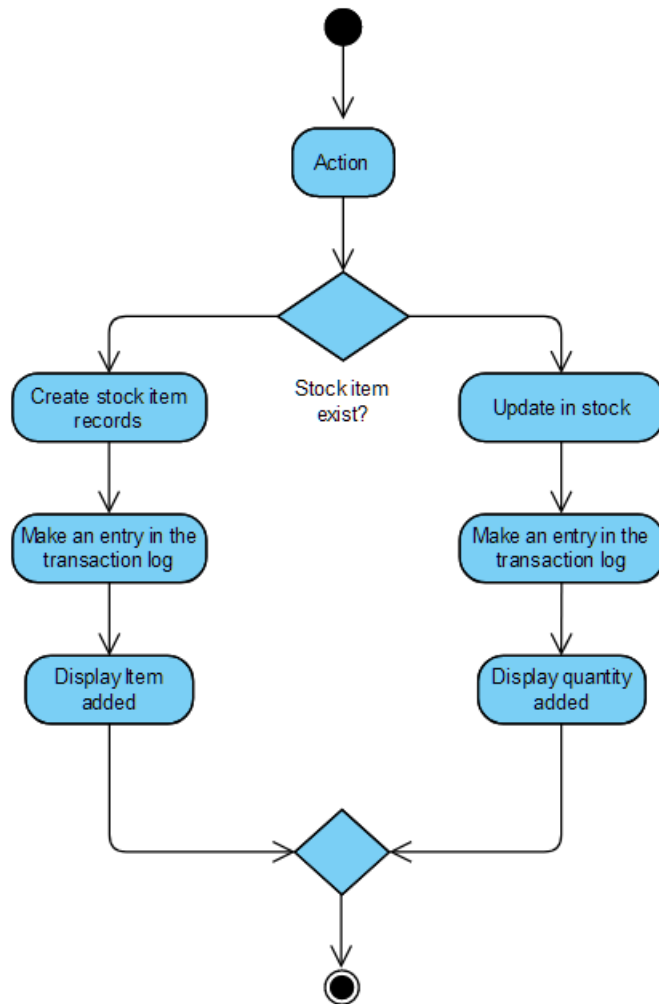
Test Case Table

Test Case	Test Case Description	Test Data	Expected Result	Actual Result	Pass/Fail
Test 1	Insert a new item with unique stock code and name	Stock Code: "1", Stock Name: "af", Stock Quantity: 10	Successfully added	Successfully added	Pass
Test 2	Insert a new item with duplicate stock code	Stock Code: "1", Stock Name: "wd", Stock Quantity: 20	An item with the same code or name already exists.	An item with the same code or name already exists.	Pass
Test 3	Insert a new item with duplicate stock name	Stock Code: "2", Stock Name: "af", Stock Quantity: 30	An item with the same code or name already exists.	An item with the same code or name already exists.	Pass
Test 4	Load and display items from an empty database	No test data required	The DataGridView should be empty.	The DataGridView is empty.	Pass
Test 5	Load and display items from a database with existing data	Insert a few items into the database before running this test.	The DataGridView should display the existing items.	The DataGridView displays the existing items.	Pass

Diagrams

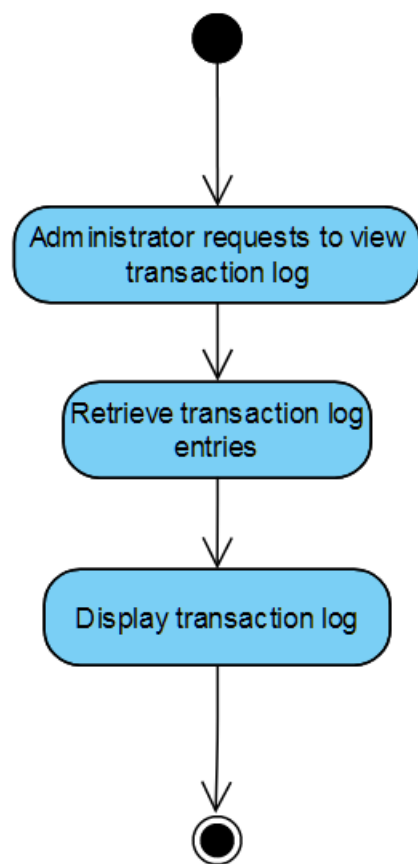
Activity diagrams

Use case 1



Activity Diagram 1

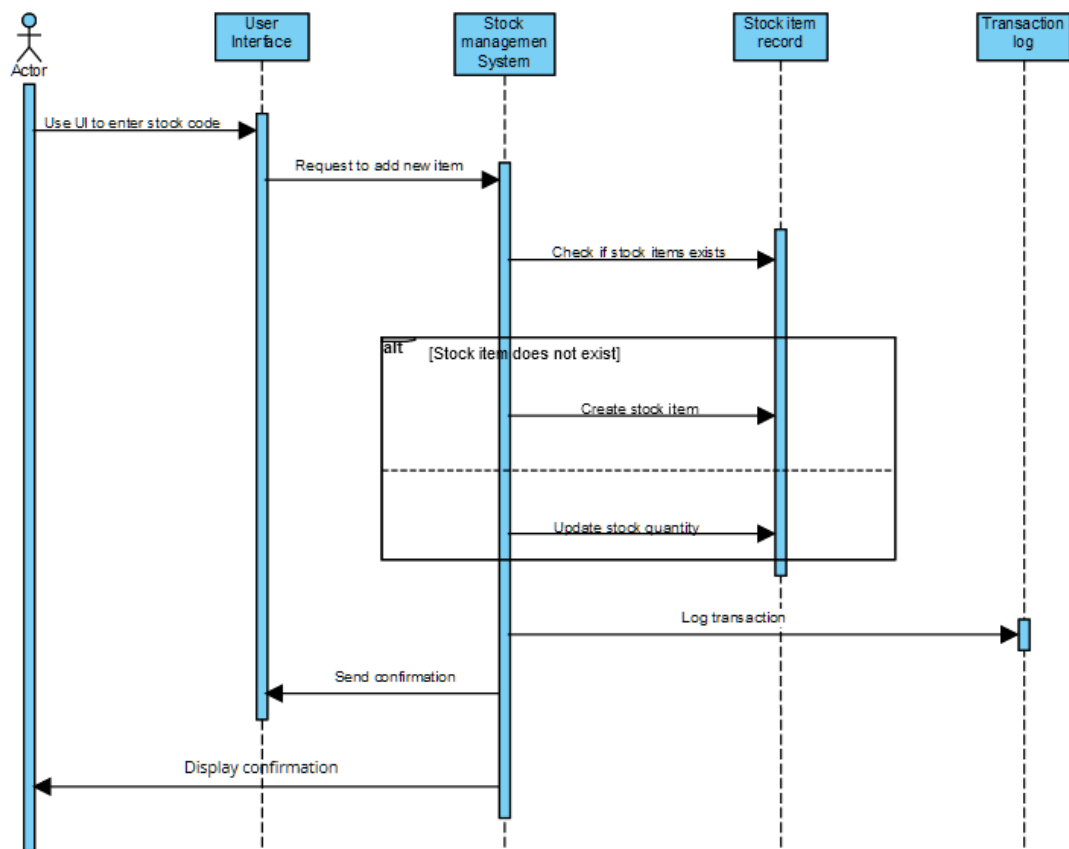
Use case 5



Activity Diagram 2

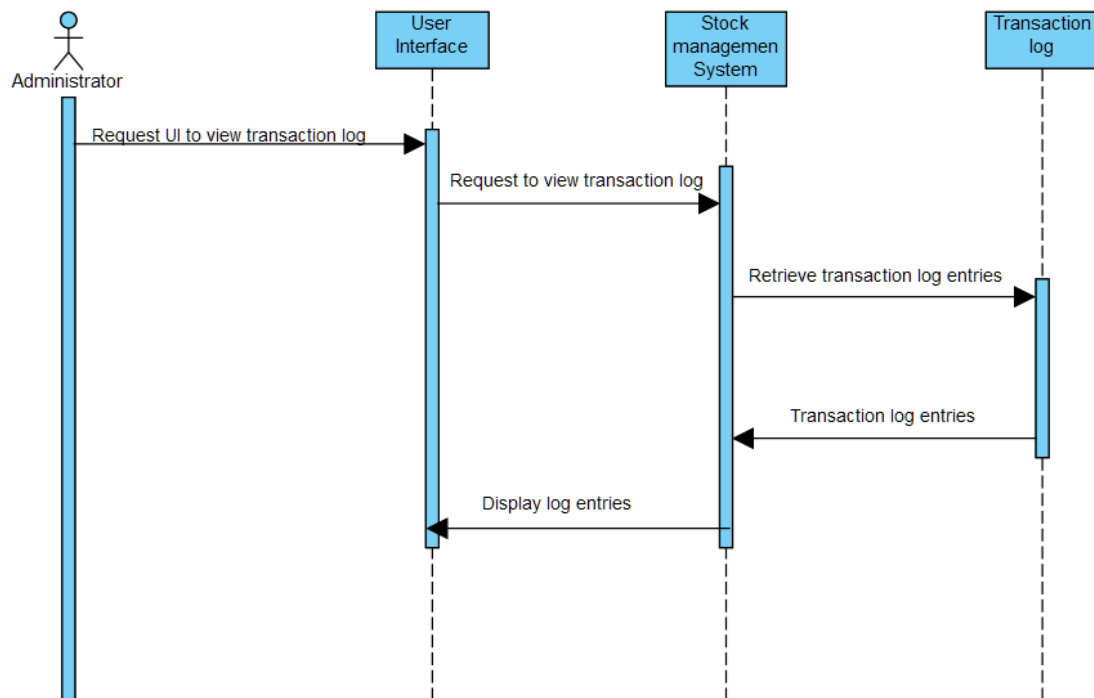
Sequence diagrams

Use case 1



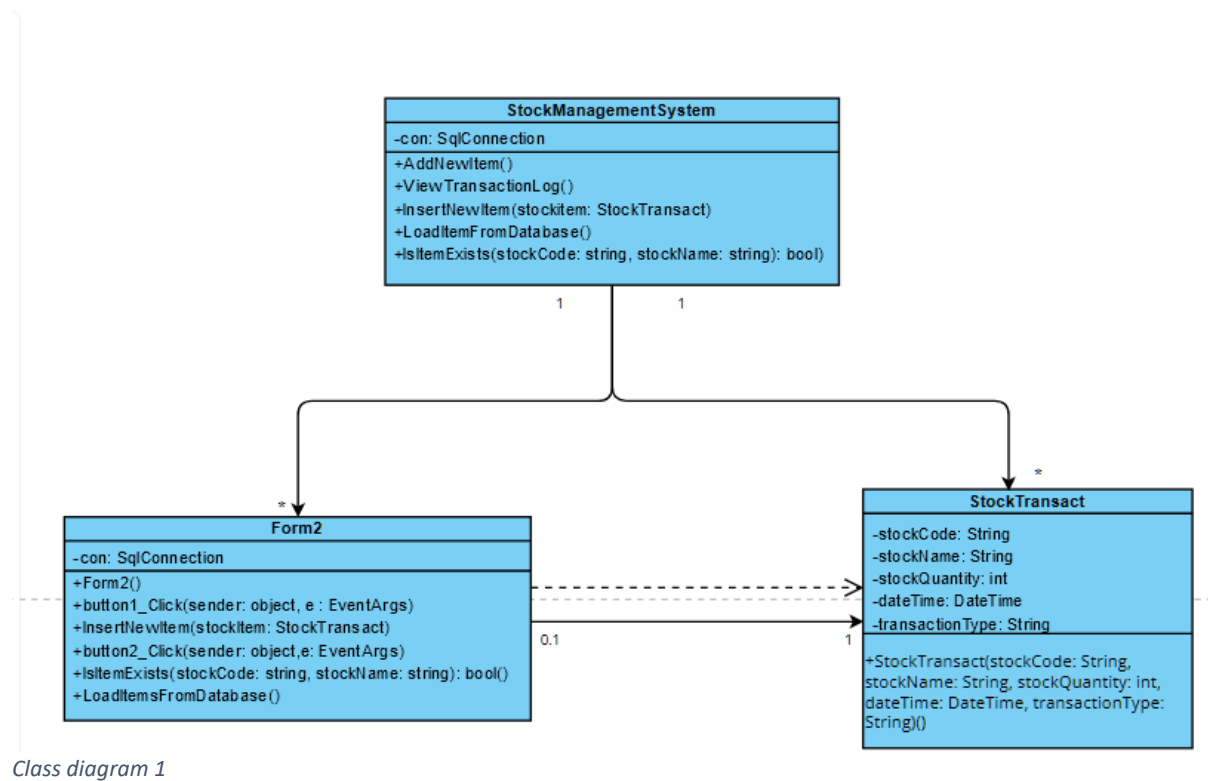
Sequence diagram 1

Use case 5



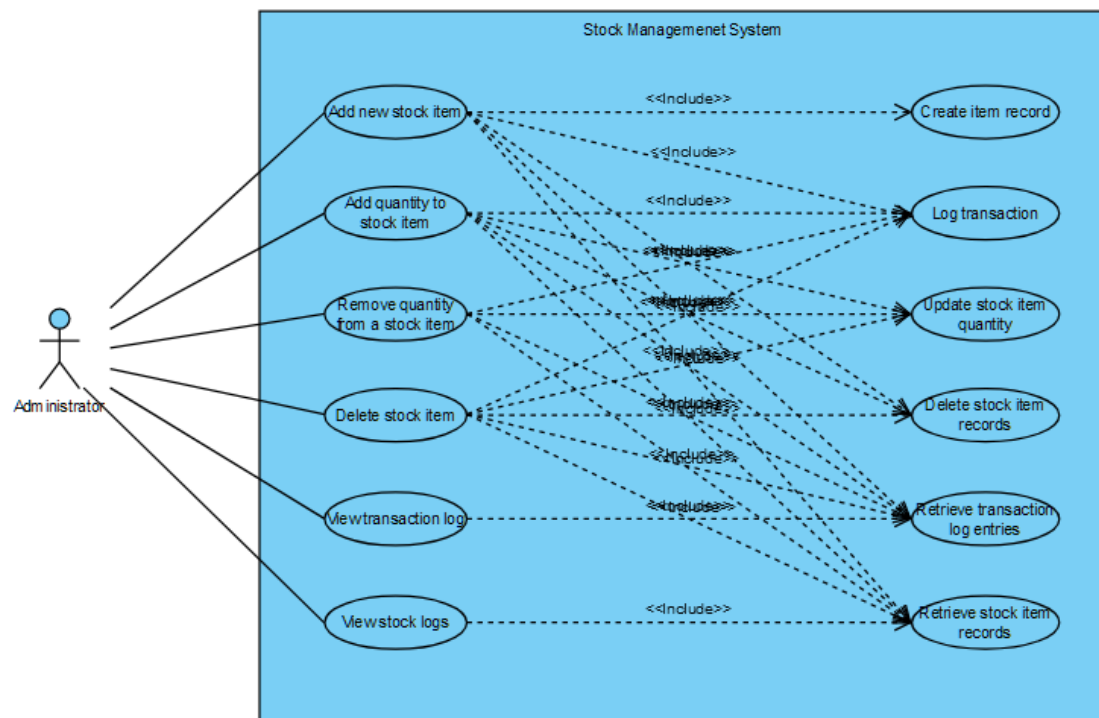
Sequence diagram 2

Class diagram



Class diagram 1

UML diagram



UML diagram 1