

# Micro-Project Annexure-1

**Course Title:** Object Oriented Programming Using  
C++

**Course Code:** 313304

**Under the Guidance of:** Mrs. Amita Randive

**Topic:** Shop System



## Group Members:

Roll Number	Enrollment Number	Name
31	23150930411	Divya Gosavi
32	23150930413	Swayam Datkhile
33	23150930414	Jay Jogane
34	23150930415	Ninad Mali
35	23150930416	Jagruti Chavan

## **1.0 Aims/Benefits of the Micro-Project**

To Understand Shop System , the administrator and can manage the shop and the customers can buy products from the shop.

## **2.0 Course Outcomes Addressed**

- CO1 - Perform basic operations on Arrays.
- CO2 - Apply different searching and sorting methods.
- CO3 - Implement basic operations on Linked List.
- CO4 - Perform operations on Stack using Array and Linked List.
- CO5 - Perform operations on Queue using Array and Linked List.
- CO6 - Create and Traverse Tree to solve problems.

## **3.0 Proposed Methodology**

- a) Objective - Create a Shop system with product and cart management, managing the system using arrays, linked list , stack , queues.
- b) Scope –
  - Cart operations: Create, Delete, View
  - Product Operations: Create , Delete,Update,View
- c) Approach –
  - Arrays for basic data storage
  - Linked List for cart and products.
  - Stack to store the products in cart
  - Queue to display products and cart
- d) Evaluation – Test Functionality, Performance, usability

#### 4.0 Action Plan

S. No.	Details of the Activity	Planned Start Date	Planned Finish Date	Name of the responsible Team Members
1	Topic Selection	5-Aug-24	7-Aug-24	Divya Gosavi, Jay Jogane
2	Annexure 1 submission	17-Aug-24	26-Aug-24	Divya Gosavi, Swayam Datkhile , Jay Jogane , Ninad Mali, Jagruti Chavan
3	Information Search	12-Aug-24	20-Aug-24	Jay Jogane, Divya Gosavi , Swayam Datkhile
4	Writing the program	21-Aug-24	30-Aug-24	Jay Jogane
5	Testing the Program	1-Sep-24	15-Sep-24	Divya Gosavi
6	Implement the Program	20-Sep-24	10-Oct-24	Jay Jogane , Divya Gosavi
7	Annexure 2 submission			

#### 5.0 Resources Required

S. No.	Name of Resource	Specifications	Quantity	Remarks
1	Turbo C++	Version 4	1	
2	Computer System	Windows 11	1	
3	Books	Data Structures Using C	1	
4	Reference Websites	geekforgeeks	1	