

CCP PROJECT PROPOSAL

Project Title: Mini Shopping Cart

Course: Programming Fundamentals

Team Members:

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- **Subject:**

Build a mini shopping cart system that calculates bill and applies discounts.

- **Introduction:**

This project is part of our Complex Computing Problem (CCP) coursework. We are developing a mini shopping cart system that allows a user to select items, calculates the total bill, and applies discounts based on certain conditions. The project demonstrates fundamental programming concepts and problem-solving techniques using the C programming language.

- **Tools Used:**

The tools used for the development of this project include:

1. C Programming Language
2. GCC Compiler
3. Code::Blocks / Dev-C++ IDE

- **Application:**

This system can be applied in small shops or kiosks where a basic billing system is required. It provides an easy way to manage items, compute total cost, and give discounts automatically.

- **Concepts Used:**

The following programming concepts are applied in this project:

1. Loops (for and while) – to navigate through items

2. If-Else – to apply discounts and conditions
3. Arrays – to store items and prices

- **Logic behind the program:**

The logic of the shopping cart system is as follows:

1. Display a list of available items with their prices.
2. Ask the user to select items and quantity.
3. Store the selected items and compute the total cost using loops.
4. Apply discount rules using if-else conditions (e.g., 10% discount if bill exceeds a certain amount).
5. Display the final bill with total amount and discount applied.