

REQUIREMENTS DOCUMENT

Date submitted: October 17, 2006

Application title: Book Sales Project

Purpose: This application will calculate the quantity and price of a book, show a 15% discount, and the discounted price. It will keep a running total of the number of books sold, total discount given, total of books sold and the average price of the discount.

Program Procedures: From the Burluson High School Library form, the user enters the quantity of books, title of the book, and the unit price. The program determines the extended price, amount of discount, and discounted price per item. Then determine the total number of books sold, total discount given, total discounted amounts, and the average discount per book.

Algorithms, Processing, and Conditions:

1. The user must enter the number of books, the title of the book and the unit price.
2. The unit price must be formatted with a leading dollar sign and two digits before and after the decimal.
3. The "Calculate" button will calculate the price and running totals.
4. The "Clear" button will clear the book information and current sale but leave the summary information.
5. The calculate button will continually update the summary without erasing it.

Notes and Restrictions: Remember the four steps to create a procedure:

1. Create Dimensions
2. Fill Dimensions
3. Calculate
4. Format and Display the results

Comments:

1. Create a formal "Use Case Definition" document
2. Create a "Event Planning" document
3. Create a form, correctly naming all the objects
4. Create the Code:
 - a. $\text{ExtendedPrice} = \text{Quantity} * \text{Price}$
 - b. $\text{Discount} = \text{ExtendedPrice} * \text{DiscountRate}$
 - c. $\text{DiscountedPrice} = \text{ExtendedPrice} - \text{Discount}$
 - d. $\text{SummaryQuantity} = \text{SummaryQuantity} + \text{Quantity}$
 - e. $\text{SummaryDiscount} = \text{SummaryDiscount} + \text{Discount}$
 - f. $\text{SummaryDiscountedPrice} = \text{SummaryDiscountedPrice} + \text{DiscountedPrice}$
 - g. $\text{AverageDiscount} = \text{SummaryDiscount} / \text{SummaryQuantity}$

Burleson High School Library

Book Sales

Book Information

Quantity	<input type="text" value="2"/>
Title	<input type="text" value="The Choosen"/>
Price	<input type="text" value="\$41.55"/>

Current Sale

Extended Price:	<input type="text" value="\$83.10"/>
15% Discount:	<input type="text" value="\$12.47"/>
Discounted Price:	<input type="text" value="\$70.64"/>

Summary

Total Number of Books:	<input type="text" value="7"/>
Total of Discounts Given:	<input type="text" value="\$43.63"/>
Total of Discounted Amounts:	<input type="text" value="\$247.22"/>
Average Discount:	<input type="text" value="\$6.23"/>