SHENKAR COLLEGE

Shenkar

DEPARTMENT OF COMPUTER SCIENCE

BEBS-BOOKSHOP SYSTEM

(SYSTEM TO BUY/FIND BOOK WITH THE CART)

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1 Overview

The software system being produced is called book Easy Buy System or BEBS. It is being produced for a customer interested in buying books via the cart. This system is designed to "provide automation support" for the process of placing books for buy on the shop and facilitating the actual sale.

The BEBS System will allow any user to create an account to become a customer. The customer, through the process of account creation, will have the option to become a member of the shop. The system will allow customers to browse, search, select, and add books to a shopping cart.

Then, provided they have books in their shopping cart, check out books in shopping cart and decrement the stock that the inventory the system maintains. The BEBS also allows a manager to manage the inventory with full create, retrieve, update and delete (CRUD) functionality with regards to books in the system. It will also allow, on an inventory wide basis, customers and managers to interact with a promotion system that handles percentage-off promotions that can be applied to member's orders. This interaction includes the creation (by managers) and the application to orders (by customers) of the promotions. The BEBS send promotions to members of the system as well as provide the managers with low-stock notifications.

2 Problem Description And Motivation

The problem BEBS try to solve:

- In the bookstore chain, it is not possible to keep track of the existing inventory in each store.
- Customers do not know what benefits exist in the store that are right for them.
- Customers are unable to keep track of the total price in their shopping cart
- Difficulty in continuously monitoring book sales made by customers
- Difficulty in continuously monitoring the store's profits by month / week

The solution:

- Customers receive a real-time price and catalog of the products in the basket, Customer receives real-time special offers.
- The system will allow the store manager to enter specials in real time and the system will display them to registered customers
- The system will help the store track book sales and in-store book shortages
- The system will alert store managers of the amount of books missing for order delivery from suppliers
- The system in real time will provide the user an efficient and fast search for books
- A manager can provide the customer with promotions
- The system will help keep track of store profits from book sales

The BEBS system provides fast information and matching for in-store books. In addition you can quickly identify discounts and promotions and get the cost of the cart quickly.

3 Project Goals

- Improving service for network customers
- Promotion
- Increasing network profits
- Streamlining sales / buying work processes
- Iteratively manages inventory
- Tracking sales and in-store deficiencies

4 The Approach

Book Easy Buy System or BEBS is a uniqe system that give to customer the option to get a new way to shop book on store in real time with your bascket. Our approsh is to analysis the business engineering, requirement, clases, costs and ect.

This chapter describes the overall approach of the BEBS system the main tasks and factuality details

- Maintain data base associated with the inventory of the store (a collection of books)
- Maintain data base records for many customers
- Allow any customer to become a member.
- Shopping basket has a real time system show inventory on shop and option to search get price add book and etc.
- Interface with internal organizational systems
- Interface with external credit systems

5 Scenarios

1. An administrator receives an alert about a missing inventory for a particular book placing an order for new books. The manager logs in again to identify a customer who has made a lot of transactions and allows him a discount for the next purchase. In addition, he updates a discount for all customers who make transactions over NIS 200

2. A user is looking for the Ari Potter book series at a discounted price. He enters the system during a registration campaign, and is presented with store promotions entered by the system administrator, a search operation on the book in which he is interested and adds it to his shopping list

3. The customer entered the system and she recognized that in the past he made purchases mainly of drama books and offered him to try Anna's book in the garden and decided to add it to the basket and two more books before the purchase decided to remove the second book from the list and pay in cash

6 Functional Requirements

The set of requirements define the functions of the Bookstore BEBS system. This describes the set of inputs, the behavior, and outputs expected in the system.

The core functionalities expected in the system are Managing Users, Managing Inventory, Taking Orders and Fulfilling Orders, The key requirements required to accomplish each of these functionalities are described in the sections below.

Manage Users

The set of requirements define the functions of the User Management capability of the Bookstore system. Managing Users includes Accounts creation, maintenance, closing and delete

Name	Description
Add Users	It must be possible to add new users to the client repository.
Manage User Accounts	The system is required to store and maintain a list of client accounts in a repository.
Remove User	It is required that users within the repository may be deleted if required. If the user has existing transactions against their account, the delete is a logical delete only.
Report on User Account	A report is required covering all details of a user's account including current open transactions, transaction history and activity.
Store User Details	User details must be persisted to a relational database.
Validate User	The system must provide for secure access and user validation via pin and password. The user may change their password according to a set of defined rules.

Manage Inventory

The set of requirements define the functions of the Inventory Management capability of the Bookstore system. Managing Inventory includes Adding books to database, receiving books, managing books, etc.

Name	Description
Add Books	A facility will be required to receive and add books to the stock lists.
List Stock Levels	A facility will exist to list current stock levels and to manually update stock quantities if physical checking reveals inconsistencies.
Manage Inventory	The system include a complete inventory management facility to store and track stock of books for the bookstore.
Buy Books	In processing the buy books the inventory needs to be updated to show what books have been subtracted from the stock
Receive Books	A facility to receive and add books to the inventory. Books will be received in batch shipments from the usual suppliers and recorded in the system.
Pick/restore Books from shell	In processing the pick/restore books the inventory needs to be updated to show what books have been pick/restore

Take Orders

The set of requirements define the functions of the Order Taking capability of the Online Bookstore system. This includes providing online interface, shopping basket and payment gateway

Name	Description
Payment	credit card types will be accepted and approval / payment can be on cash
Provide Sales	Ordering system on cart is required. This will allow users to browse and purchase books from the current inventory on the shop.

7 Non- Functional Requirements

This section of the document covers the non-functional requirements related to the Bookstore System. This includes Extensibility, Legal and Regulatory requirements, Performance requirements, Reliability requirements and Security requirements

Data base

The system will store data about completed / uncompleted purchases

The system will be able to store a high amount of information.

Extensibility system

Other product type's options can be added easily.

The system should be able to adapt to future requirements with respect to new product types. If new types of products become available then they should be able to be added to the system easily.

Legal and Regulatory

Non storage of customer credit card details

There is a legal requirement that customer credit card details must not be stored.

Orders and dispatch information must be kept for seven years.

There is a legal requirement that customer order and dispatch information must be kept for six years. There should be a facility to archive these orders and ensure that they are not deleted before six years from the creation date.

Reliability

The system accuracy defines that the system will perform as expected and in its key areas of functionality will produce the expected results.

In the event of software or hardware failure the system must be able to be recovered to full operating mode within the tolerances listed below.

Security

All transactions must be secure

Physical storage locations should be secure

Processed information must be kept secure

All information gained from the end users that is processed must be kept secure.

System Flows