
ONLINE BOOK STORE USING CLOUD COMPUTING (AWS)

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ABSTRACT

The research find out about explores the phenomenon of increase in the use of on-line medium for textbook sales. The learn about makes use of the fundamentals of commerce transactions, incorporating them into a mannequin to explain their outcomes on one of a kind mediums of textbook sale. The learn about makes use of theoretical strategy in explaining the impact of blessings and hazards of every medium on transactions occurring through it. The find out about designs two distinct models each representing a single medium. The method of flowchart evaluation is used to describe the quite a number tactics occurring in every medium and transactions are integrated at the factor of income in both the models. Overall the study concludes by way of explaining the concept at the back of the increase of on-line medium when compared to different mediums.

Keywords: Commercial Transactions, Online Retail, Brick And Mortar Store, Used Book Sale, Enterprise To Commercial Enterprise Transactions, Business To Client Transactions, And Purchaser To Consumer Transactions.

I. INTRODUCTION

An on line book shop software projects that acts as a central database containing a number of books in inventory along with their title, author and cost. This project is a website that acts as a central book store. This internet venture is developed the usage of php/C#/HTML as the front cease and sql as a back-end. The sql database shops a variety of e book related details. A person travelling the internet site can see a large range of books arranged in respective categories. The person might also choose preferred e book and view its price. The consumer may also even search for precise books on the website. Once the consumer selects a book , he then has to fill in a shape and the book is booked for the user. The software program has the following three foremost components:-

- 1.Implement of new consumer to register and login.
- 2.Implement user to select any book.
- 3.Implement the user to buy books.

The internet site will be carried out the usage of PHP as the programming language. MYSQL database will be used to link database.

II. METHODOLOGY

PROBLEM STATEMENT:- The Online Book Store System is a easy assignment similar like purchasing cart or e-commerce however is only for e book shopping. Categories wise books accessible

Goal and Objectives:-

- Provide a net consumer interface to add, view , delete records in exceptional area
- Provide a person interface to enter it's small print
- Provide a person interface to explore the store and pick books to buy.

Statement of scope:-

Demonstrate a trojan horse free utility after appropriate modification if wished . Understand and prepare a precise requirement and specifications . Perform unit testing, integration and machine testing.

Methodologies of hassle solving and effectivity issues:-

System checking out of software or hardware is checking out conducted on a complete, integrated device to consider the system's compliance with its specific requirements. System checking out falls inside the scope of black-box testing, and as such, should require no information of the internal plan of the code or logic. As a rule,

machine trying out takes, as its input, all of the "integrated" software program factors that have exceeded integration trying out and additionally the software machine itself integrated with any relevant hardware system(s). The purpose of integration checking out is to discover any inconsistencies between the software program gadgets that are built-in together (called assemblages) or between any of the assemblages and the hardware. System testing is a extra confined type of testing; it seeks to become aware of defects each inside the "inter-assemblages" and additionally inside the machine as a whole. System checking out is performed on the entire device in the context of a Functional Requirement Specification(s) (FRS) and/or a System Requirement Specification (SRS). System testing assessments not only the design, but additionally the conduct and even the believed expectations of the customer. It is additionally meant to take a look at up to and beyond the bounds described in the software/hardware requirements specification(s).

Scenario in which multi-core, embedded and disbursed computing used:-

Three-tier (layer) is a client-server architecture in which the consumer interface, business procedure (business rules) and statistics storage and statistics access are developed and maintained as independent modules or most often on separate platforms. The Architecture of Online Book Store is based totally on three-tier architecture.

The three logical tiers are :-

- Presentation tier - ASP.NET Web forms, Master Pages, Images.
- Middle tier – php/C#/HTML classes.
- Data tier- Database

The foremost reason for thinking about three-tier architecture for the Online Book store is as follows:

Flexibility:

- Management of information is impartial from the physical storage support,
- Maintenance of the commercial enterprise common sense is easier,
- Migration to new graphical environments is faster.
- If there is a minor trade in the business logic, we don't have to deploy the complete machine in individual user's PCs.

Reusability:

- Reusability of business good judgment is greater for the presentation layer. As this issue is developed and tested, we can use it in any other task and would be helpful for future use.

PROPOSED METHODOLOGY:-

The system was once designed based on the find out about of famous online book shops such as "Amazon" or "Google books" with the Iraqi market environment in mind. The machine interfaces were designed to be simple and direct, providing all records wished by using the user, whilst growing security and protection of the database. The gadget was carried out the usage of PHP (Hypertext Pre-processor) scripting language because of its pace of development, recognition and portability. The machine also make use of MySQL relational database administration software program package, in the main for its high compatibility with php/C#/HTML and ease of use. Based on the website layout aspects the proposed system is designed as exhibit the fundamental gadgets of the sketch is given below:

- **User:** the site requires no registration so the consumer can be any person searching the internet.
- **Admin:** the administrator is the person responsible for managing the gadget database. The administrator is the only man or woman successful of adding and putting off books from the database.
- **Books Database:** The e book database include records about all books in the website such as title, author, ISBN, price etc. The search and looking technique encompass database get right of entry to for retrieving books' information.
- **Browsing:** The website provides distinct classes for books (e.g. web, mathematics, Programming etc) which the consumer can type through author names, book titles, or years of submit and other attributes. In addition the internet site affords some books for free.

➤ **Search:** The website provide the capability to search for books the usage of part of the e book title, the creator name, or ISBN.

➤ **Adding to Cart:** The buying cart machine shops the customers' order and permit the purchase of extra than one book at a time. The user must add the book to the buying cart before proceeding to buy it.

➤ **Purchase:** The buy method consists of three primary steps: Filling the form: the person need to enter deposit card information. Validating input: the device checks the validity of the enter information Delivering the book.

➤ **Bank Database:** A easy database used to simulate a digital bank, it includes Visa Card information (name, visa number, expiry date) for a wide variety of users. This database s securely protected and is used for validation functions only.

Outcome:-

- ✓ To realize any sort of bug with known or unknown action.
- ✓ Scheduling of updates.
- ✓ Reduce guide work.

Advantages:-

- ✓ Customers can get their e book delivered rather of really going and buying the book. They can make charge online itself.
- ✓ Managing of stock in the shop for shopkeeper turns into easier as clients are no longer travelling and ordering online.
- ✓ This machine saves each time and visiting price of customers.
- ✓ User can get to understand unique kinds of books that they had been unaware of by way of simply looking out in the gadget the use of keywords.
- ✓ Suppose you prefer to purchase a book from an online bookstore or find a e book on the shelf in a library/regular book store, however you can't take into account the whole title. You can seem it up with the aid of entering the author's identify or the subject. Books matching the standards will be listed on the screen. You are able to discover the e book you are fascinated in due to the fact of metadata.

Applications:-

1.] USER:

- Registration
- Login
- Add To Cart
- Edit Cart

2.] ADMIN:

- Create and Delete book from Category
- Create and Delete a Category
- Manage Orders
- Manage Members

III. MODELING AND ANALYSIS

Software context:-

To advance this software we will require php as improvement language. MYSQL will be the back cease of our application. All this software is free of cost.

Software Interface Description:-

This task is a website that acts as a central e book store. This web assignment is developed the use of php/C#/HTML as the front end and sql as a back-end. In order to supply greatest overall performance and keep away from site crash the machine wants to be hosted on a cloud infrastructure. The sql database shops a

number of e book associated details. A person traveling the internet site can see a huge vary of books arranged in respective categories.

Design Constraints:-

Security is no longer a subject for this system. The database may additionally shop passwords in undeniable textual content and there would not need to be a password restoration function nor lockout after numerous invalid login attempts. As such, the machine may additionally no longer work correctly in cases when safety is a concern. These instances include those listed above in addition to lack of an encrypted connection when sending savings card statistics and forcing customers to use "strong" passwords. A strong password is a password that meets a wide variety of conditions that are set in area so that user's passwords cannot be effortlessly guessed by means of an attacker. Generally, these policies encompass making sure that the password incorporates a adequate range of characters and incorporates no longer only lowercase letters but additionally capitals, numbers, and in some cases, symbols.

System User Analysis:-

The on-line bookstore's essential customers are divided into two categories, one is the the front user, one is the heritage user. Front-end customers are ordinarily clients who eat online bookstores. Front-end users can register, login, query, be part of shopping cart, vicinity orders, put up orders, alter personal information, verify receipt and add remarks on the website. Back-End can add, regulate or delete the e book classification; add, adjust or delete the e book information, manipulate the order facts and reply to the user's comments. The consumer is the administrator, the administrator to play the function of basic planning, grasp and manage the front records and so on.

System Function Analysis:-

The on-line book place is opened in the network, no longer a bodily shop however a virtual store. In order to enhance the efficiency of the query, the site can no longer only use a single condition query, but also can use more than one conditions to obtain accurate query, the query will be introduced after the purchasing cart function, the query function, And then you can purchase to put up orders, generate orders and price to complete the whole purchase system function, the consumer can put up orders before the order to modify, when the seller after the cargo can also affirm the receipt of the operation to complete the transaction , After the completion of the transaction the consumer can remark on the corresponding book, the other unregistered users can not purchase books or add to the buying cart operation, the person should first register as a member of the bookstore, log in before the above operations. In addition to the foreground function, the need for historical past management, directors can log in through the corresponding Web website online background, after the classification of the e book catalog and e book statistics to add, alter and delete, but additionally the order data management, Such as the cancellation of unpaid or unpaid orders, the price of orders for shipping operations, etc , can additionally reply to the user's comments, you can reply to every comment, and the client's book small print web page is displayed

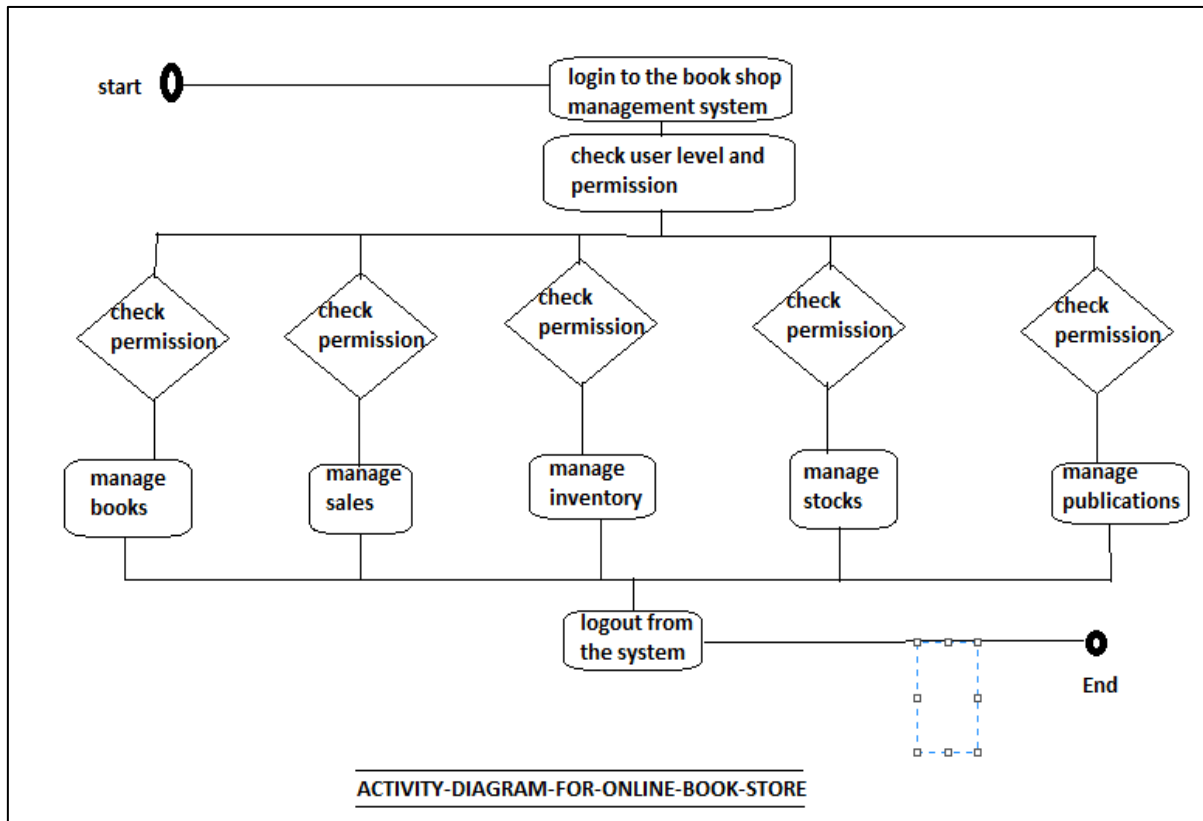


Figure 1: Activity Diagram (Architectural Design).

This is the Activity Diagram of Book Store Management System, which indicates the flows of Login Activity. After login user can control all the operations on Sales, Inventory, Books, Publications, Stocks. All the pages such as Books. Publications, Stocks are impenetrable and consumer can get right of entry to these page after login. The design below helps show how the login page works In a Book Shop Management System. The a range of objects in the Publications, Sales, Inventory. Books, and Stocks web page Interact over the route of the Activity, and person will no longer be able to get right of entry to this page barring verifying their identity.

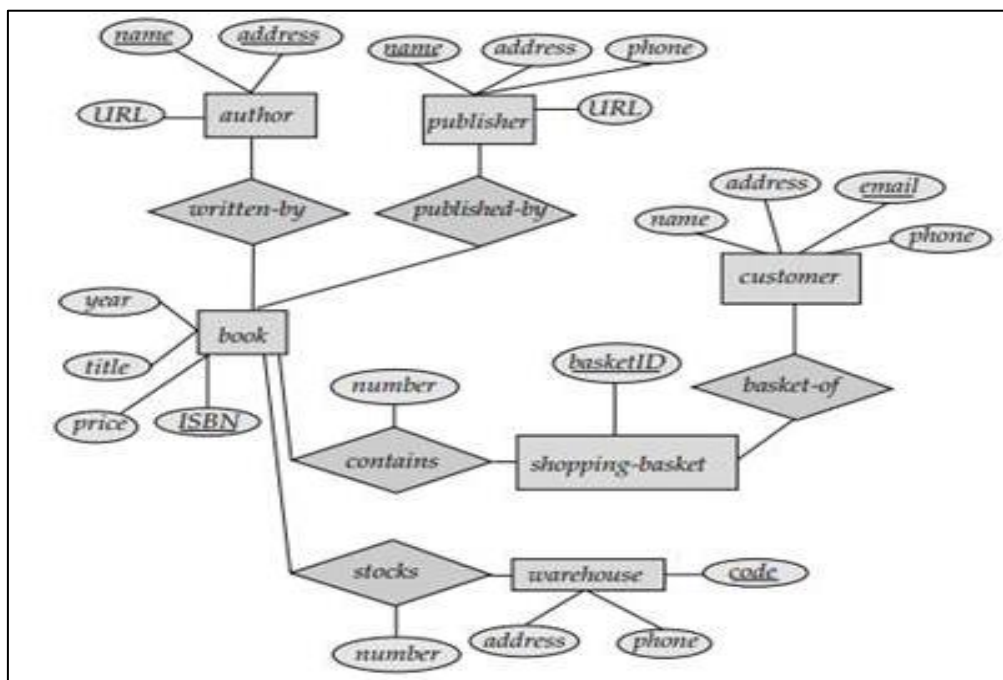


Figure 2: E-R Diagram (Book Store Management).

This is the Activity E-R plan of Book Shop Management System which shows the flows between the pastime of Inventory, Books, Sales, Stocks, Publications. The essential exercise involved in this E-R Activity Diagram of Online Book Store Management System are as follows:

- Inventory Activity
- Books Activity
- Sales Activity
- Stocks Activity
- Publications Activity

Features Of The Activity UML Diagram Of Book Shop Management System

- Admin User can search Inventory, view description of a chosen Inventory, add Inventory, replace Inventory and delete Inventory.
- Its indicates the undertaking waft of editing, including and updating of Books
- User will be capable to search and generate record of Sales, Stocks, Publications
- All objects such as (Inventory, Books, Publications) are interlinked .
- Its suggests the full description and glide of Inventory, Stocks, Publications, Sales, Books.

IV. RESULTS AND DISCUSSION

The machine is a widespread hobby for reading and books on the needs of the customer client base, with a positive diploma of sensible on line book shop system. It is usually one of a kind from the traditional bodily bookstores, to overcome a sequence of bodily bookstores constrained variety, fixed location, restricted space and slender sales channels and other issues, for people to purchase the book has delivered convenience. Online bookstore device no longer solely can effortlessly find the data and purchase books, and the working stipulations are simple, user-friendly, to a large extent to solve real-life problems in the purchase of books, but the plan of the device because of the completion time Of the restrictions, some of the features of the device is not perfect, but the basic functions have been achieved.

V. CONCLUSION

“Website format is like a store Interior. If the save appears poor or like thousands of different stores the client is most possibly to bypass to the different site”. Hence we have designed the challenge to furnish the user with handy navigation, retrieval of records and indispensable remarks as tons as possible. It is handy for the consumer to view the contents of books. The Online Book Store Application described in this undertaking gives a range of aspects that are designed to make the consumer extra comfortable. We have discovered basic fundamentals of cloud computing & Implemented it in developing an online bookstore management prototype.

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