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| 1000 BOOKS! |
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| WEB BASED APPLICATION ASSIGNMENT  19.1 | SE 102.3 | GROUP 06 |

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**CONTENTS**

Group member details4

Introduction5

About 1000 BOOKS!6

Frameworks and scripting languages used in the website……………………………7

Bootstrap……………………………………………...………………………. 7

PHP………………………………………………………..………………….. 7

MySQL…………………………………………………………..…………… 8

Diagrammatical representation of the website9

An overview of 1000 BOOKS!10

Discussion11

Conclusion12

References13

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INTRODUCTION

In the today’s modern world, with the development in information and communication technology the society is driven towards e-business hand in hand with busy human lifestyles. Electronic business (e-business) is the largest emerging trend in business today. This can simply be described as a wider concept that embraces all aspects of the use of information technology in business. E-business can be divided into three parts namely business to consumer, business to business and business to employee. E-business covers business processes along the whole value chain: electronic purchasing and supply chain management, processing orders electronically, customer service and cooperation with business partners. The movement into e-business is dramatically changing the way people engage in transactions along with their own choice of not only in product and price but in shopping environment as well.

Some of the busiest people on our planet is also avid readers. Reading sparks one’s creativity, helps to grow an understanding of complex problems and grows intellectually while at the same time, reading is a very relaxing activity. But how do people find time to buy and read books while having a busy year? 1000 BOOKS! drives solutions to all the issues that come by their way with a user-friendly online platform to buy and read books according to one’s own choice.

ABOUT 1000 BOOKS!

“All Books Available to All” - Our vision

1000 BOOKS! is an online bookstore that has cut a specialty for itself with the point to give significant, charming and also animating substance to the society as a work of adoration. Every one of the books available are broadly examined, delightfully planned and attentively composed.

1000 BOOKS! which is a pioneer in online sales of books in Sri Lanka has invested in modern technology and made the online book buying experience to our many thousands of satisfied customers simple, convenient and secure. It has a collection of over a number of titles and is a one stop destination on the web to find popular best sellers as well as rare books. The wide scope of books offered by 1000 BOOKS! incorporates biographies, health and fitness, business, comics, religion and many more with expertise in books implied for offspring of various ages. Every one of these books are accessible in English at competitive prices.

Anyone can visit the 1000 BOOKS! website and browse the selection and their prices. If a user wishes to purchase a book, he should initially get registered into the website through a registration process. Thereafter, the customer can purchase books anytime once he logins to the site, places the order and makes the relevant payment method. The products will be delivered within two weeks of purchase. On the other hand, major publishers can add, update or delete books from the website through the admin area.  
  
Customer satisfaction and online security is at the core. 1000 BOOKS! endeavors to be the best option for buying books online. This has the largest selection of books than any other online bookstore in Sri Lanka.

FRAMEWORKS AND SCRIPTING LANUAGES USED IN THE WEBSITE

BOOTSTRAP

Bootstrap is a free and open-source CSS framework for developing responsive, mobile-first front-end websites. It designs a whole barrelful of templates for navigation bars, dropdowns, progress bars, thumbnails and other interface components.

The primary purpose of adding bootstrap to 1000 BOOKS! website is to apply Bootstrap choices of color, size, font and layout making it a faster responsive website that will adjust itself on all devices like mobile phones, tablets, computer, laptop and even more.

PHP

PHP, an acronym for "PHP: Hypertext Preprocessor" is a widely used open source general purpose scripting language that is specially suited for web development and can be embedded into html. PHP scripts are executed on the server.

PHP files that have an extension “.php” can contain text, HTML, CSS, JavaScript and PHP code. The PHP code is executed on the server and the result is returned to the browser as plain HTML.

PHP runs on various platforms such as; Windows, Linux, Unix, Mac OS X, etc. PHP is compatible with almost all servers used today; Apache, IIS and also supports a wide range of databases.

This is generally used to;

* Generate dynamic page content.
* Create, open, read, write, delete and close files on the server.
* Collect form data.
* Send and receive cookies
* Add, delete, modify data in the database
* Control user access.
* Encrypt data

MYSQL

MySQL is an Oracle-backed open source relational database management system (RDBMS) based on Structured Query Language. This application is used for variety of purposes including data warehousing, e-commerce, and logging applications.

The most common use for MySQL however, is for the purpose of a web database. It can be used to store anything from a single record of information to an entire inventory of available products for an online store.

In association with a scripting language such as PHP or Perl it is possible to create websites which will interact in real-time with a MySQL database to rapidly display categorized and searchable information to a website user.

DIAGRAMATICAL REPRESENTATION OF THE WEBSITE

AN OVERVIEW OF 1000 BOOKS!

HOMEPAGE

A homepage is a web page that serves as the starting point of a website. It is the default webpage that loads when one visits a web address and that contains only a domain name. The homepage is located in the root directory of a website. Most web servers allow the home page to have one of the following filenames; index.html, index.htm, index.shtml, index.php, default.html and home.html. 1000 BOOKS! website’s homepage consists of the index.php file name. The default filename of a website’s homepage can be customized on both Apache and IIS servers.

1000 BOOKS! homepage consists of a navigation bar that provides links to various sections within the website, such as to the all categories, about us, user login and the cart. The navigation bar is created using <nav class= “navbar navbar-default”> in bootstrap. The navigation bar is linked to all other web pages to make sure that it appears in other web pages as well. This home page is created as a dynamic web page. The carousel in bootstrap is used in the slideshow for cycling of the three images with text.

A dynamic list is used for the latest arrivals, to automatically change the products displayed when content is added, updated or deleted in the database. For instance, when a product is being deleted to take over that position by replacing with the product that was next to it, without creating an error in the web page. Moreover, cards in bootstrap is used to create each section that contains the product name, image, price and an “add to cart” button.

PRODUCT DETAIL PAGE

A product detail page (PDP) is a web page on an e-commerce website that present the description of a specific product and its related category products in view. The details displayed often include the name of the product, the price and an “add to card button” and other relevant information that a customer may want to know before making a purchase. Typically, this information is presented along with an actual photo of the product.

The homepage is linked to the product detail page along with the product ID and category. When a product in the homepage is selected it moves to the product detail page carrying the ID and the category, using the product ID, product details of that particular is product taken from the database with the help of the MySQL connection. Also, the category that was carried from the homepage is used to get details of the related products belonging to that specific category. A dynamic list and cards are used for the related books in this web page.

CART PAGE

A cart page is an essential part of an e-commerce website. It is the page where users can pile up what they want to buy from the website and then simply checkout by paying. In 1000 BOOKS! website the users can add or delete products from the cart according to their requirements and then place the order. The product name, category, unit price, quantity, total quantity and total price of the product added to the cart by the user will be displayed.

THE REGISTRATION PAGE

A registration form is a list of fields that a user will input data into and submit. This is primarily used to sign up customers for subscriptions, services, or other programs or plans.

If a user of the 1000 BOOKS! website wishes to purchase a product he initially has to get registered to the website in order to login to the site when required to place any order.

A special feature is being applied in the registration form of 1000 BOOKS! using the “sha 1” function of php to encrypt the password the user enters. This is done to maintain security within the website.

USER LOGIN PAGE

A login is a set of credentials used to authenticate a user. In 1000 BOOKS! website the user has to enter the username and the password in order to login and purchase a product.

ADMIN PAGE

Web admins manage and maintain websites, taking into account functionality, appearance, content and performance. When an admin of 1000 BOOKS! website needs to add, update or delete any product he initially has to login through the admin login area using the username and the password. If the admin needs to add a new book to the website, he has to enter the relevant product details alongside with the product image. Over here, file handling is being is used to store all the images available in website in a separate folder in the server. For example, in 1000 BOOKS! website images are being stored in a folder named as inventory images in the server.

The delete web page can be used by the admin whenever he wishes to delete a book from the website. This web page contains all the data available in the product table of the database. Usually when an item is deleted by the admin although it gets deleted from the database it doesn’t get deleted from the website unless the webpage is refreshed but 1000 BOOKS! is created in such a way that the page gets automatically refreshed once a deletion takes place.

Moreover, a session which refers to the limited time of communication between two systems is being used in this website. Some sessions involve a client and a server, while other sessions involve two personal computers. This is primarily applied to upgrade the security of the website.

DISCUSSION

CONCLUSION

REFERENCES