**Software Engineering Project**

**Online Book Store**

                    Report

                         Submitted by

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**Table of Content**

|  |  |
| --- | --- |
| **Contents** | **Page no.** |
| **1.0 Introduction** | 4 |
| 1.1 Purpose | 4 |
| 1.2 Modules |  |
| 1.3 Scope |  |
| 1.4 Advantages |  |
| 1.5 Disadvantages |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
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**1.0 Introduction**

    An online Book Store is a website where users can buy books from.online.All books are arranged by department wise. So, users can see their book’s pictures and purchase books by department wise. Here users can have their own profile by signing up the register form. Then they will login and by their user interface they can purchase books from any department. They can add favourite books to their wishlist. This web project is developed by php and mysql server.

**1.1 Purpose**

Many students may not be able to buy expensive books. Some books which only use textbooks. Users can find their books from an online based web application. Many people may face problems purchasing books offline because of traffic. So, it is both time and price consuming to purchase a book from online.

**1.2 Modules**

This website contains following features :

1. Users can register.
2. **Users can sigIn.       ((   make it individual  ))  …….**
3. Users can search books.
4. Users can see book details.
5. **Users can add, delete and update to cart before purchasing.   ((   make it individual  ))  ...**
6. **Users can add and delete their favourite books in wishlist.**  **((   make it with an Oneclick  ))     ………………...**
7. **Users can edit their profile.      ((   make it individual  ))  ...**
8. **Users can contact the admin.**     **((   make it individual  ))  ...**
9. **Users can see the replies from the admin.  ((   make it individual  ))  ...**
10. **Users can delete replies after seeing it.   ((   make it individual  )) ...**

**1.3 Scope**

     Everything in this world now is being computerized. People now being able to update themselves through the internet. We are very used to using online platforms. Graphic User Interface is very easy to operate for users. We use them for various purposes like business, defence, private etc. System should be secure enough as we share our private information in it.

**1.4 Advantages**

1.  Users do not have to wait for the line.

    2.  No need to go to the store.

    3.  No travelling cost of users.

    4.  Book shops are easier to manage  online than offline.

    5. They can purchase online.

**1.5 Disadvantages**

    1. Need  internet connection

**2.0 Requirements**

 All systems require something. Some are functional and some are non functional. Requirements also obtained by doing surveys among the users.

**2.1 Product Use Case List**

  1. Books

**2.2 Product Use Cases**

Books are the product of this website. Here books are purchased by users according to their preference. Users can purchase books through online platforms.

|  |  |
| --- | --- |
| **Use Cases** | **Details** |
| Category | Category wise books are placed |
| Purchase | No limit of purchasing |
| Order | No limit of order books |
| Search | They can search books by their name. After clicking only on the search button they can see all book lists. |

**2.3 Functional Requirements**

1. Websites have a signUp system.
2. Bookstores' websites have a signIn option.
3. Users can search books.
4. Users can see book details
5. Users can update their profile.
6. Users can add to cart.
7. Users can update their cart.
8. Users can delete their cart.
9. Users can add their favourite books to the wishlists.
10. Users can delete their wishlist.
11. Admin can update, delete and add products and categories.
12. Users can contact the admin.
13. Users can see replies from admin.
14. Users can contact.
15. It allows users to pay online.

**2.4 Performance Requirements**

      This system is time consuming and speed suitable. Any interface between users takes under 2 seconds. The response shall be fast enough to avoid interrupting the user’s flow of thought. The product shall respond in less than 1 second for 90 percent of the interrogations. No response shall take longer than 2.5 seconds.

**2.5 Capacity Requirements**

 Products are able to deal with specific volume and the amount of data stored by the product.

**2.6 Reliability Requirements**

System is capable of doing the function exactly the same as what it was built for. It is easy to learn about the product and use the system.

**2.7 Availability Requirement**

   Systems may be damaged during runtime. The system does not take much time to recover again. It comes back with no loss of data. System does not take time doing any update in the database. Products are available for 24 hours.

**2.8 Safety Critical Requirements**

      Products are safe for the human environment. No risk of damage. Books are really a good platform to gain knowledge. We do not provide any books which may occur hurm to users.

**2.9 Maintenance Requirements**

      The products are able to develop by the end users or developers.

**2.10 Adaptability Requirements**

      The product is expected to run under Windows and Linux.

**2.11 Access Requirements**

      The system is secured. It specifies those who have access to the or permission to update the product. Users can purchase and see the products. But the admin has the authorization to delete, update, add the product. **Admin can delete users…………….**

**2.12 Privacy Requirements**

     Before collecting all data of our users, we ensure their data safety. All the information abu the users is ensured safe.

**2.13 Understandability Requirements**

    It is easy to understand the product and the product is polite to our users. The product does use some symbols which are familiar and easy to understand and learn.

**2.14 Appearance Requirements**

        Users are allowed to share their experience and want to add or delete something to our system or product they can let us know through contact. The product is attractive to a teenage audience.

**2.15 Expected Physical Environment**

1. The product is used by a worker, standing up, outside in cold, rainy conditions.
2. The product is used in noisy conditions with a lot of dust.
3. The product is able to fit in a pocket or purse.
4. The product is usable in dim light.
5. The product is not louder than the existing noise level in the environment
6. The products work on the last four releases of the five most popular browsers.

**2.16 Hardware Requirements**

1. 512 GB of ram.
2. Dual core processor or higher.

**2.17 Software requirements**

      It contains a database, operating system, tools, libraries etc. Communication between admin and users will be web based.

1. **My Sql :** it is a relational database management system.
2. **PHP :** A programming language which is used for backend programming.
3. **Web browser : Used to access the website.**
4. **XAMPP :** An application that helps to quickly customize a web server and database.

**2.18 Cultural Requirements**

1. The product is not offensive to religious or ethnic groups.
2. The product keeps a record of public holidays for Bangladesh

**3.0 Design**

   The design will show the UML diagrams, Classes diagrams, Sequence diagrams, and the database design diagram.

**3.1 Design Goals**

    Important difference between design goals and requirements: Requirements

include specific values that must be met in order for the product to be acceptable to

the client, whereas design goals are properties that the designers strive to make "as

good as possible", without specific criteria for acceptability. It is easy to implement something by seeing the design.

**3.2 Graphical User Interface**

           Take snapshot of the login and register page from website

**3.3 Data Flow Diagram**

                                          From 154 subarna

                                   First level DFD

                           From 154 subarna

                                      Second level DFD

**3.4 UML Diagram**

|  |
| --- |
| For actor USERS |

|  |
| --- |
| For actor ADMIN |

**3.5 Static Model**

                             Class diagrams for the system

**3.6 Dynamic Model**

                          Sequence diagram for User login

Sequence diagram for Book search

Sequence dIagram for add to cart

Sequence diagram for admin

**3.7 Survey Results**

     Snapshot of survey results

**4.0 System Features**

          System contains of below features :

**4.1 Home Page**

* **Purpose :** This is the main page after users visit our website.
* **Actor :** Users both registered or not and admin.
* **Input :**      Click on category.

                  Click on sigIn button.

                   Search books.

* **Output :**  it will show the book category wise.

                   It will redirect to logIN page.

                Users can search all books by searching on the dialog box  and they can see all books lists only by clicking on the search button..

**4.2 Register**

**• Purpose:** If the user doesn’t have an account then they will be asked to register.

**• Actor:** **Users and Admin………………………………………..**

**• Input:** Users will click the signUp button on the login page. Then it will redirect them to the registration page. If users want to enter without putting any data it will show an error message “ Please fill up ” .  The user will enter their information in the registration form. The registration form will take

        1. Username

        2. Password

      • **Output:** It will confirm registration by saying “  Registration Successful ” .After clicking on the login button on the registration page it will redirect to the login page.

**4.3 Login**

* **Purpose :** Different users may have different preferences. So, they should carry different profiles.  On other hand Admins also have their own profile. Because some authorization like update delete can be done only by them.
* **Actor :** Users and Admin.
* **Input :** They should fill the logIn form and click signIn.  If users want to enter without putting any data it will show an error message “ Please fill up the requirements ” . If the password or name is incorrect it will show “ incorrect password or username or not registered ” **. If not found in the database it will show “ not registered please do register ”...........................................................................**
* **Output  :**  After clicking signIn it will direct them to their desired profile.

**4.4 Search for a book**

* **Purpose :** Can search book by book name. It is easy to find the required book. Puting one alphabet  in the search dialog box will show the similar alphabet related books.
* **Actor** **:** Users
* **Input** **:** Write book name in search dialog box and click search button.
* **Output**  **:**  It will redirect to the desired book.

**4.5 Search by Category**

* **Purpose :** Can search the books by department name. It is easy to find the required  department book.
* **Actor :** Users
* **Input :** Click to category. Then select category name.
* **Output  :**  It will redirect to the department wise page book lists.

**4.6 Update Profile**

* **Purpose :** Can update their profile. Sometimes they need to change information.
* **Actor** **:** Users and Admin.
* **Input** **:** Click on edit profile button.
* **Output**  **:**  It will redirect to the edit or update information page.

**4.7 Add and Delete Favourite**

* **Purpose :** Users may purchase the book later. So, they list the favourite books in their wishlist. Can also delete the
* **Actor** **:** Registered Users.
* **Input** **:** Click on wishlist button.

             Click on delete button

* **Output**  **:**  It will redirect to the wishlist page.
* Delete the wishlist.

**4.8 Add, Update and delete to cart**

* **Purpose :** Can add to cart which book they want to purchase. In the user profile they can see their cart amount with subtotal and total amount. Sometimes they need to edit cart details. If users do not want to purchase, delete the cart.
* **Actor** **:** Registered Users.
* **Input** **:** Click on add to cart

                       Click on update cart

            Click on delete cart

* **Output**  **:**  It will redirect to the cart page after clicking on add to cart.

                 Will update the quantity of the books.

                 Will delete afterclicking delete.

**4.9 Add, Update and delete Category**

* **Purpose :** Can add category. New users may have different departments.
* **Actor** **:** Admin.
* **Input** **:** Click on add category.

                       Click on update category.

            Click on delete category.

* **Output**  **:**   It will redirect to the category page after clicking on add to category.

                 Will update the category name.

                 Will delete category afterclicking delete.

**4.10 Add, Update and delete Book**

* **Purpose :** Can add books. Because many users have many preferences. Update book details. If out of stock, I need to delete.
* **Actor** **:** Admin.
* **Input** **:** Click on add book.

                       Click on the update book.

            Click on delete books.

* **Output**  **:**   It will redirect to the book's add page.

                 Will update the book details and book category.

                 Will delete books.

**4.11 Delete User**

* **Purpose :** Can delete user profile. Sometimes users' activity may be dangerous or not well mannered.
* **Actor** **:** Admin
* **Input** **:** Click on profile. Sub list named delete user profile will show. Click on        the  button.
* **Output**  **:**  It will delete the user profile.

**4.12 Checkout**

* **Purpose :** It will confirm the purchasing. Ready details item showing before final purchase.
* **Actor** **:** Users.
* **Input** **:** Click on the checkout button.
* **Output** **:** Itwill redirect to the bkash and all other online payment platforms  by showing all the total amount and all details**.**

**4.13 Contact**

* **Purpose :** To contact each other.
* **Actor** **:** Registered Users and Admin.
* **Input** **:** Click on contact button.
* **Output**  **:**  It will allow them to contact each other, see messages and reply given by the admin. Reply can be seen by admin just like admin can queries of users. Admin can delete queries as  users can.

**4.14 View Orders…………………...**

* **Purpose :** Can view the orders of books.
* **Actor** **:** Admin.
* **Input** **:** Click on view orders button.
* **Output**  **:**  It will show the ordered book**s………..………**

**4.15 Logout**

* **Purpose :** Can logout from profile.
* **Actor** **:** Users and Admin
* **Input** **:** Click on the logout button.
* **Output**  **:**  It will redirect to thehomepage .

**Testing**

**References**