**SOFTWARE REQUIREMENTS SPECIFICATION (SRS) DOCUMENT OF OPENCART**

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**1. INTRODUCTION**  
**1.1 Purpose**   
  
E-commerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing web sites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming commonplace. The objective of this project is to develop a general-purpose e-commerce store where product like clothes can be bought from the comfort of home through the Internet. However, for implementation purposes, this paper will deal with an online shopping for clothes. An online store is a virtual store on the Internet where customers can browse the catalog and select products of interest. The selected items may be collected in a shopping cart. At checkout time, the items in the shopping cart will be presented as an order. At that time, more information will be needed to complete the transaction. Usually, the customer will be asked to fill or select a billing address, a shipping address, a shipping option, and payment information such as credit card number. An e-mail notification is sent to the customer as soon as the order is placed.   
  
**1.2 Scope**   
  
  
This system allows the customers to maintain their cart for add or remove the product over the internet.   
  
  
**2 OVERALL DESCRIPTION:**  
**2.1 Description:**

Any member can register and view available products. ¬ Only registered member can purchase multiple products regardless of quantity. Contact Us page is available to contact Admin for queries. There are three roles available: Visitor, User and Admin. • Visitor can view available products. • User can view and purchase products. • An Admin has some extra privilege including all privilege of visitor and user. Admin can add products, edit product information and add/remove product. Admin can add user, edit user information and can remove user. Admin can ship order to user based on order placed by sending confirmation mail.   
  
**2.2 Product Perspective**   
  
Various interfaces for the product could be- 1). Login Page 2). Registration Form 3). There will be a screen displaying information about product that the shop having. 4). If the customers select the buy button, then another screen of shopping cart will be opened. 5). After ordering for the product, the system will send one copy of the bill to the customer’s Email address   
  
**2.2.1 Software Interface:**  
1. Operating System: Windows7 Ultimate which supports networking.   
2.JAVA development toolkit.   
  
  
**2.2.2 Hardware Interface:** Hardware requirements for insurance on internet will be same for both parties which are as follows: Processor: Dual Core RAM:2 GB Hard Disk:320 GB NIC: For each party  
  
 **2.2.3 Communication Interfaces:**  
 The two parties should be connected by LAN or WAN for the communication purpose.   
  
**2.3 Using the code:**  
1. Attach the database in your "SQL Server Management Studio Express".  
2. Run the application on Microsoft Visual Studio as web site.   
3. Locate the database.   
  
**2.4 Master Page details:** Online Shopping Master Page (Similar Master Page for Visitor, User and Admin)   
  
**2.5 Web Pages details:**   
  
 Home Page   
About Us Page   
Clothing Page   
Order Us Page  
Contact Us Page   
Admin Page   
Login Page   
Register Page   
Track   
  
**Functional Requirements:**  
This section provides requirement overview of the system. Various functional modules that can be implemented by the system will be -   
  
**3.1 Description:**   
  
3.3.1 Registration If customer wants to buy the product, then he/she must be registered, unregistered user can’t go to the shopping cart.  
  
3.3.2 Login Customer logins to the system by entering valid user id and password for the shopping.   
  
  
  
3.3.3 Changes to Cart Changes to cart means the customer after login or registration can make order or cancel order of the product from the shopping cart.   
  
3.2.4 Payment In this system we are dealing the mode of payment by Cash. We will extend this to credit card, debit card etc. in the future.  
  
 3.2.5 Logout After ordering or surfing for the product customer has to logout.   
  
3.2.6 Report Generation After ordering for the product, the system will be sent one copy of the bill to the customer’s Email-address and another one for the system data base.   
  
**3.2 Non- Functional Requirements:**  
Following Non-Functional Requirements will be there in the insurance to the internet:   
  
(i) Secure access to consumer’s confidential data.   
(ii) 24X7 availability.  
(iii) Better component design to get better performance at peak time.  
(iv) Flexible service-based architecture will be highly desirable for future extension. Non-Functional Requirements define system properties and constraints. Various other Non-Functional Requirements are:   
● Security Pages of the website must be access in the way they were intended to be accessed.   
Included files shall not be accessed outside of their parent file.  
• Administrator can only perform administrative task on pages they are privileged to access. Customers will not be allowed to access the administrator pages  
• Reliability  
• Maintainability   
• Page loads should be returned and formatted in a timely fashion depending on the request being made.   
• Administrators will have the ability to edit the aspects of the order forms, product descriptions, prices and website directly   
• Portability   
• Extensibility   
• Reusability  
 • Compatibility Resource Utilization 3.4 Performance Requirements: In order to maintain an acceptable speed at maximum number of uploads allowed from a particular customer as any number of users can access to the system at any time. Also the connections to the servers will be based on the attributes of the user like his location and server will be working 24X7 times.  
  
 **3.3 Technical Issues:**This system will work on client-server architecture. It will require an internet server and which will be able to run PHP application. The system should support some commonly used browser such as IE, mozzila, firefox, chrome etc.  
  
  
  
  
  
  
**4. ONLINE SHOPPING APPLICATION:**

Anyone can view Online Shopping portal and available products, but every user must login by his/her Username and password in order to purchase or order products. Unregistered members can register by navigating to registration page. Only Admin will have access to modify roles, by default developer can only be an ‘Admin’. Once user register site, his default role will be ‘User’.   
  
4.1 HOMEPAGE: The Home Screen will consist of screen were one can browse through the products which we have on our website.   
  
4.2. Clothing Page (Products): This page consists of product details. This page appears same for both visitors and users.   
  
4.3 Order Us Page: Registered users can order desired products from here.   
  
4.5 About Us Page: This page describes about website and owners.   
   
4.6 Track for Admin Page: Website Administrators can track and ship orders here.   
  
4.7 REGISTER PAGE: New users can register here.   
  
4.8 LOGIN PAGE: Login page for both users and administrators.   
  
4.9 Admin Page: Only difference you see in this page is Role: Admin. User and Admin role will be checked once the page was login and Session [“role”] will be either Admin or User. If credentials belong to Admin, then role will be Admin and if credentials belong to User, then role will be User.   
  
4.10 ORDER VIEW FOR USER: Once users order item, they are able to see ordered products and grand total.   
  
4.11 PAYPAL FOR PAYMENT:   
Once users orders products they are redirected to payment page.   
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
**5 Data Management** :  
  
**5.1 Data Description:**  
This database consists of   
  
 Users: User and Admin information is added to database with Unique ID based on their roles.   
  
Shopping: Complete products information is stored in this table.   
  
Orders: Customer ordered products, status and delivery information is stored in this table.   
 **5.2 Data Objects**   
  
User: ID, User Name, Password, Email, Role   
Shopping: ID, Product, Product ID, Cost, Category, Image, Description   
Orders: ID, Client, Product, Quantity, Price, Date, Order Shipped

**Conclusion**:

The Internet has become a major resource in modern business, thus electronic shopping has gained significance not only from the entrepreneur’s but also from the customer’s point of view. For the entrepreneur, electronic shopping generates new business opportunities and for the customer, it makes comparative shopping possible. As per a survey, most consumers of online stores are impulsive and usually make a decision to stay on a site within the first few seconds. “Website design is like a shop interior. If the shop looks poor or like hundreds of other shops the customer is most likely to skip to the other site. Hence, we have designed the project to provide the user with easy navigation, retrieval of data and necessary feedback as much as possible. In this project, the user is provided with an ecommerce web site that can be used to buy books online. To implement this as a web application we used ASP.NET as the Technology. ASP.NET has several advantages such as enhanced performance, scalability, built-in security and simplicity. To build any web application using ASP.NET we need a programming language such as C#, VB.NET, J# and so on. C# was the language used to build this application. For the client browser to connect to the ASP.NET engine we used Microsoft’s Internet Information Services (IIS) as the Web Server. ASP.NET uses ADO.NET to interact with the database as it provides in-memory caching that eliminates the need to contact the database server frequently and it can easily deploy and maintain an ASP.NET application. SQL was used as back-end database since it is one of the most popular databases, and it provides fast data access, easy installation and simplicity. A good shopping cart design must be accompanied with user-friendly shopping cart application logic. It should be convenient for the customer to view the contents of their cart and to be able to remove or add items to their cart. The shopping cart application described in this project provides a number of features that are designed to make the customer more comfortable. This project helps in understanding the creation of an interactive web page and the technologies used to implement it. The design of the project which includes Data Model and Process Model illustrates how the database is built with different tables, how the data is accessed and processed from the tables. The building of the project has given me a precise knowledge about how ASP.NET is used to develop a website, how it connects to the database to access the data and how the data and web pages are modified to provide the user with a shopping cart application

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