## Title of the project: - “Online Electronics Shop”

## Introduction and Objectives of the Project: -

The Online Electronics Shop is an e-Commerce Online e-Store. It is about to order electronic items from home. Objectives behind this project are to provide electronic item at home on one click. Searching specific item by its name , Item type and its price or by discount on it . It maintains the details of customer payments, product receipts, addition of new customers, products and also updating, deletion for the same. It also stores the details of invoices generated by customer and payments made by them with all Payments details like credit card.

## Project Category: - “E-Commerce Web-store”

## Tools / Platform, Hardware and Software Requirement specifications: -

Operating System: Windows XP, Windows 7 And Windows + Operating Systems.

Platform Software: WAMP Server or PHP, MySQL, Apache Server.

Web Browser: Any Supportable Java Script and JQuery. (e.g. Chrome, Firefox)

Hardware Configuration: Mini Pentium-IV processor, RAM-512 MB, HDD 120 GB, Supporting Windows XP or Windows + Operating Systems.

## A complete structure which includes: -

* Number of modules and their description
* Customer Login/Registration Module.
* Shopping Cart Module.
* Search Module for Product.
* Check out Module with Payment Gateway.
* Trace Order and Check Order Status Module.
* Admin Login Module.
* Admin Product Module.
* Admin Trace Order Module.
* Admin Forum Module.
* Admin Trace Customer Module.
* Admin Dashboard Module.

### Customer Login/Registration Module: -

In this module Customer can register itself with the following details:

* User-ID (It will be an email address).
* Password and Confirm Password (Minimum 6 Character).
* Name of Customer (i. e. First Name and Last Name).
* Contact No. (It will be a Numeric Input).
* Address
* City
* State
* Country
* Pin Code

After filling all the above fields, Customer can click on registration to register. And after successful registration customer can login with his/her login User-ID and Password.

Note: - No one can register twice using same User-ID.

### Shopping Cart Module: -

In this module, there will be shopping cart. Any customer can add product to cart to buy it. And shopping cart will contain all products which are added to cart by customer. Shopping cart option will be shown on the top menu. If any customer clicks on this menu, it will open a slide window which contains products those are added by customer in table form. The table has columns as following:

* Product Name
* Quantity (which is added in cart by customer)
* Rate of the Product
* Amount (i. e. Quantity \* Rate)
* Delete Option

And below the table in the slide window Total Amount of the products and a checkout button, after clicking on checkout header will redirect to confirm cart page. In this page customer will see all products which are added to cart by customer. Here customer can change quantity of the product and he/she can remove product from cart by clicking on edit or delete option. Below the cart there is a check out button to checkout.

### Search Module for Product : -

In this module any customer can search product by name or forum by title. As any customer type product name in search box, it will suggest product list by given character (i. e. Auto Complete Tool Using JQuery). All the details of product will be shown on searching , details like product name , product category , product manual or user guide , its price , discount on it , warranty and all metadata about product.

### Check out Module with Payment Gateway: -

In this module customer can check out with PayPal Payment Gateway. After selecting products in cart, customer can check out. In the check out process first of all customer need to fill shipping address of product, second confirm order to see product in cart, and finally click on check out button to make payment it will take customer to PayPal website to make payment after successful payment customer will be automatically redirect to elctronics e-store with success message.

### Trace Order and Check Order Status Module: -

In this module any customer can trace their orders and see status of order. In this module I will implement a JQUERY-AJAX function to get detail of any order without refreshing page. Any customer can see his/her order detail after login (login is compulsory for security). Order can be traced by order ID, e.g. when user put an order, after successful payment the system will generate an order ID which will be provided to user. And to trace that order User have to enter order ID, by this order ID we will trace an order and send on customer screen via AJAX function, In the customer screen we have arranged order like any customer can easily see order detail with status. We have also added list orders page to see all order of customer.

### Admin Login Module: -

I will implement and admin panel to manage daily activities as following:

Products activities: - (Add New Category of Product, Add New Subcategory of Product, Edit or Delete Existing Category or Subcategory of Product, Add New Product, Edit Existing Product, Delete Invalid Product, View Stock Status of the Product)

* Customer Activities: - (List of All Customers, See contact detail of any customer, Block any Invalid Customer, etc.)
* Order Activities: - (Latest Orders, Pending Orders, Delivered Orders, Trace Any Order like Trace Order in User Panel, etc.)
* Forum Activities: - (Add New Category of Forum, Add New Forum in any selected Category, Edit and Delete existing category or forum, etc.)
* Other Setting: - (Set E-store Title, Set Social Icon Link, Change Password of Admin Panel, Change PayPal Email for Admin, etc.)

Above task can be performed in admin panel, and In this module I will implement admin login to perform these task.

### Admin Product Module: -

In this module Admin can perform following tasks:

* Add New Product with full description, i.e. Product Name, Category, Subcategory, Composition, Product Form, About Product, Price, Discount Price, etc.
* Edit any Existing Product or Delete Any Existing Product from the list of products.
* Add New Category or Subcategory, i. e. Category Name in Add New Category and Category List and Subcategory Name in Add New Subcategory.
* Edit any Existing Category or Subcategory or Delete any Existing Category or Subcategory.
* Filter product from product list by Category, by Subcategory and by Status.

### Admin Trace Order Module: -

In this module Admin can trace Any Order with the Help of filter, i.e. by category, by subcategory, by customer, by product, by status, etc. It will help to fulfill customer requirement in timeline.

### Admin Forum Module: -

In this module Admin can perform following tasks:

* Add New Forum Category with Name and Description of the category.
* Edit Existing Forum Category or Delete Existing Forum Category from the list of Forum Category. (E.g. Edit Name or Description).
* Add New Forum in specific Category with Name, Category, Description, etc.
* Edit Exiting Forum or Delete Existing Forum from the list of Forum.
* Filter Any forum with the help of Category of Forum.

### e Admin can Trace Order y, by State and by Degree.rom the list of Doctors.ail, Pin Code, City, State, Country, et Admin Trace Customer Module: -

In this module admin can trace customer with the help of City, State, Country, Pending Order, Product Purchased, etc.

### Admin Dashboard Module: -

In this module I will implement list of latest five Orders list and latest five Customer list. It will be a quick reference of Order and Customer Module, so that admin can know latest activity in shop.

## Data Structures as per the project requirements for all the modules: -

### Customer Registration Table: -

|  |  |  |  |
| --- | --- | --- | --- |
| **Reg\_id** | Int | Auto increment | Primary |
| **User\_id** | Varchar (45) | Not Null |  |
| **Password** | Varchar (45) | Not Null |  |
| **First Name** | Varchar (45) | Not Null |  |
| **Last Name** | Varchar (45) | Not Null |  |
| **Address** | Text |  |  |
| **City** | Varchar (45) |  |  |
| **State** | Varchar (45) |  |  |
| **Country** | Varchar (45) |  |  |
| **Email** | Varchar (45) | Not Null |  |
| **Phone** | Varchar (20) | Not Null |  |

### Shopping Cart Table: -

|  |  |  |  |
| --- | --- | --- | --- |
| **Shopping\_id** | Int | Auto increment | Primary |
| **Reg\_id** | Int | Not Null |  |
| **Product\_id** | Int | Not Null |  |
| **Session\_id** | Varchar (255) | Not Null |  |
| **Quantity** | Int | Not Null |  |
| **Price** | Float | Not Null |  |
| **Date** | Date | Not Null |  |
| **Time** | Time | Not Null |  |

### Check out Module with Payment Gateway: -

|  |  |  |  |
| --- | --- | --- | --- |
| **Checkout\_id** | Int | Auto increment | Primary |
| **Reg\_id** | Int | Not Null |  |
| **Amount** | Double | Not Null |  |
| **Transaction\_id** | Varchar (255) | Not Null |  |
| **Date** | Date | Not Null |  |
| **Time** | Time | Not Null |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Order\_id** | Int | Auto increment | Primary |
| **Checkout\_id** | Int | Not Null |  |
| **Product\_id** | Int | Not Null |  |
| **Quantity** | Int | Not Null |  |
| **Price** | Float | Not Null |  |
| **Date** | Date | Not Null |  |
| **Time** | Time | Not Null |  |

### Admin Login Module: -

|  |  |  |  |
| --- | --- | --- | --- |
| **Admin\_id** | Int | Auto increment | Primary |
| **Admin\_login\_id** | Varchar (45) | Not Null |  |
| **Admin\_password** | Varchar (45) | Not Null |  |
| **Name** | Varchar (45) |  |  |
| **Address** | Text |  |  |
| **City** | Varchar (45) |  |  |
| **State** | Varchar (45) |  |  |
| **Country** | Varchar (45) |  |  |
| **Email** | Varchar (45) |  |  |
| **Phone** | Varchar (20) |  |  |

### Admin Product Module: -

|  |  |  |  |
| --- | --- | --- | --- |
| **Product\_id** | Int | Auto increment | Primary |
| **Product\_name** | Varchar (45) | Not Null |  |
| **Product\_Descreption** | Text |  |  |
|  |  |  |  |
| **Product\_Type** | Varchar (45) |  |  |
| **Product\_Category\_id** | Int | Not Null |  |
| **Product\_Subcategory\_id** | Int | Not Null |  |
| **Product\_Unit\_price** | Float | Not Null |  |
| **Product\_format** | Varchar (45) | Not Null |  |
|  |  |  |  |
|  |  |  |  |
| **Product\_comment** | Text |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Product\_Category\_id** | Int | Auto increment | Primary |
| **Category\_name** | Varchar (45) | Not Null |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Product\_Subcategory\_id** | Int | Auto increment | Primary |
| **Product\_Category\_id** | Int | Not Null |  |
| **Subcategory\_name** | Varchar (45) | Not Null |  |

### Admin Forum Module: -

|  |  |  |  |
| --- | --- | --- | --- |
| **Forum\_id** | Int | Auto increment | Primary |
| **Forum\_cat\_id** | Int | Not Null |  |
| **Forum\_title** | Varchar (255) | Not Null |  |
| **Forum\_description** | Text |  |  |
| **Date** | Date |  |  |
| **Time** | Time |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Forum\_cat\_id** | Int | Auto increment | Primary |
| **Forum\_cat\_name** | Varchar (45) | Not Null |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Comment\_id** | Int | Auto increment | Primary |
| **Forum\_id** | Int | Not Null |  |
| **Reg\_id** | Int | Not Null |  |
| **Comment** | Text |  |  |
| **Date** | Date |  |  |
| **Time** | Time |  |  |

## Process logic of each module: -

### Customer Registration Table: - Shopping Cart Module: -

**Select Product**

**Click on Add to Cart**

**Check Product in Stock**

**Not In Stock**

**Yes**

**Get Added to Cart**

**Enter Values in text box**

**Click on Submit Button**

**Request server to register**

**Check User ID Exist**

**Yes Exist**

**Not Exist**

**Get Registered**

### Search Module for Product and Forum: -

**Enter Name**

**Click on Search**

**Data exists**

**Not Exists**

**Yes Exists**

**Get Listed**

### Testing process of project :-

Software testing is the process of showing the errors on the project. Testing means; executing a program in order to understand its behaviors that are whether or not the program exhibits a failure. To be more specific, software testing means executing a program in order to assure.

* The correctness of software with respect to software to requirement of intent.
* The performance of various conditions.
* The robustness software that is its ability to handle correct input.
* The usability, reliability of software.
* Install ability of software various condition.

The purpose of testing is to show that the program some errors. The aim of the most testing method is to systematically and actively locate the faults in the program and repair them.

**Future scope and further enhancement of project:-**

The scope of a project consists of the project scope and product scope. The project scope is defined as the work that must be performed to deliver the required product, services or results with specified functions features. The product scope is the set of functions and features that characterize a product, services or result to be delivered by current project.

It is about both what is included in the project and what is not. The importance of managing the project scope cannot be overemphasized because it has a profound impact on the overall success of the project.

A project scope outlines what work will be done as part of the project and also outlines what would not be done as part of current project. This is accomplished by defining and controlling what is included in the project.