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Web Development Competition Sample Question

Each team is required to develop an E-commerce website.

Users

Administrator:

Admin responsible for Users Management, Product Definition, adding & modifying products and Services Management.

Registered Users:

Registered Users can view the Catalog and get the information and also can Buy Products. As per availability they can use Payment options to make payments.

They can enquire about their Status (Orders) and Cancel their Orders as per norms.

Guest Users:

Guest Users can access the Portal and view the Catalog and get the information.

Guest Users can become Registered Users by submitting (filling registration form) their details through online for free of Cost.

Business Users:

Business users can interact with this application with their applications as per permissions and they can track permitted information.

Scope

It should have following features:

This is one of the most basic options that help establish a framework of an Online Shopping. With a simple shopping cart, catalog creation facility, a custom storefront appearance and online payment facilities it helps Online Shopping take off to efficient sales online.

A **product catalog** that allows portal owners to create a catalog of all the products that they want to sell and display online.

A **shopping cart** that allows customers to select the products of their choice and check them out at the online counter.

A **search facility** to search for products by name, description, category, prize etc.

Customer accounts: Personalized areas where members can login, register, add and delete and edit product information or any other relevant information. A web master would be in control and edit the information before publishing the information.

An **online payment facility** that will help users pay online in a secure manner. Payment Options compatible with leading payment gateways (enter just merchant account details) to

process payments online; Secure online credit cards/e-checks payments through SSL protocol and encryption of sensitive data.

Currency:

This feature will help to organize multiple currencies as per design and modify the exchange rates.

Shipping:

This feature will help Portal owners to integrate shipping/courier options with leading shipping service providers.

Inventory online:

For a store with more than 1000-10000+ product and facility to stock products be it retail or wholesale.

Features and Functionalities

Businesses to consumer portals are generally database-driven e-commerce sites where products are displayed in an online catalog and are stored in a database. Typically, hot new products are pulled from the database and displayed on the homepage daily. The buyer can add items from the database to the shopping cart and prices held in the database will be totaled. The site administrator can easily change product and price information.

The E-commerce Portal Preferable Features are:

customer (Buyer) side:

- | Product catalog based on Manufactures
- | Product catalog based on Categories
- | Product Search facility
- | Advanced Product Search facility
- | Reviews on Products & their ratings
- | Products Comparison
- | Product of the Month
- | Products on Sale
- | User Account creation
- | Shopping cart status
- | Selection of multiple attributes against each product (ex: size, color etc)

Customer Business operations:

- | Customer can create an account online for free of cost.
- | Customer address books (other shipping destinations)
- | Order history
- | Temporary (not logged on) and permanent (logged on) shopping carts
- | Search catalog for products or manufacturers or price range
- | Product reviews by customers
- | E-mail notifications
- | Number of products in each category are shown

Buyer Business Operations

- Add/Edit/Remove categories, products, manufacturers, customers, and reviews
- Categories-to-categories structure
- Statistics for products and customers
- Dynamic product attributes
- Attributes
- Managing Orders

List of Other Features/Functionalities:

Inventory management, catalog & import/export:

- Packing slips (fax/email delivery) for each order
- Bulk updates (amount/percentage) of products inventory
- Inventory update (CSV spreadsheet file)
- Option to disable sales of unavailable/out-of-stock
- Products reports (new arrivals, RMA, on order, in stock & backordered)
- Catalog with unlimited products and categories
- Common product structure/definition
- Ability to sell hard goods and electronic products
- Ability to set min/max quantity per order
- Unlimited attributes: images, options, files, and features
- Product reviews and custom (user defined) fields
- Different price implication for combination of options
- Easy-to-use wizard to import products/customers (CSV file)
- Export customers, products & invoices into QuickBooks

Shopping cart, customer account & order processing:

- Cart (sales coupon, gift note and saving for later purchase)
- Account (orders, subscriptions, payments history)
- Automatic sales receipts (#, billing/shipping info & taxes)
- Invoices with payment type/delivery, discounts, etc
- Merchant sales follow-up notifications
- Ability to track orders status online
- Ability to review of outstanding/completed orders
- Sales receipts to customers & merchant
- Email alerts when new orders are submitted

Payment & shipping options:

- Pre-integration with leading payment processors
- Secure online credit cards/e-checks payments
- Payments by check, credit/debit card, money order, COD
- Ability to process credit cards online
- Multi-currency support (settlement into basic currency)
- Dynamic shipping calculation (flat, linear/table) within regions

- National/global shipping options

Custom storefront appearance:

- Custom storefront appearance: add logo, header/footer etc.
- Variety of pre-integrated pages
- Ability to create new custom pages
- Full customization of presentation layer
- Any regional language (UNICODE support)

System settings & services:

- Settings (general, currency, language, etc)
- Workability with the back office on the Internet
- Web services interface to manipulate all data queries
- Fully scalable package to add any new rules
- Full 1 year subscription to upgrades/updates

Sales management & promotions:

- Sales journal (order & refund documents) and secure download option
 - Ability to accept payments online (secure transactions).
 - Tracking of orders received: Web, phone, fax, mail, and email
 - Catalog sales with ability to create customer's account
 - Advanced search by documents, customers, suppliers & products
 - Intelligent search by time period (day, week, month) and transactions
 - Price lists for customers and membership
- Free shipping based on amount, weight and quantity.