ITC 250/CPET 499 Web System Project
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Overview

Objective
Scope
Project Schedule
System Design
- Functional Description
- System requirements
  - User Interface
  - Server System Requirements
  - Process Logic
- Major Components
- System Infrastructure
- System Interaction

Objective:

- Design, build, and test a prototype of a simple ecommerce website.
- The finished website will allow the user to view products, make product selections for purchase, and collect payment information when the user is ready to make purchase.

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SCOPE:

That which will be included:

- Design of an ecommerce webpage using Netbeans (an open source software package).
- Design of an ecommerce server using XAMPP (another open source software package).
- Design of a ecommerce database using MySQL (if time permits).
- Testing of site by simulating a customer visiting the site from the web.
- Writing a report of the project's results.
- Giving a presentation of the project's results.

Scope (continued)

That which will not be included:

- Accessing the Ecommerce site from outside of the local (home) network.
- Actual financial transactions (credit card or other payment forms) being processed.

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Project Schedule
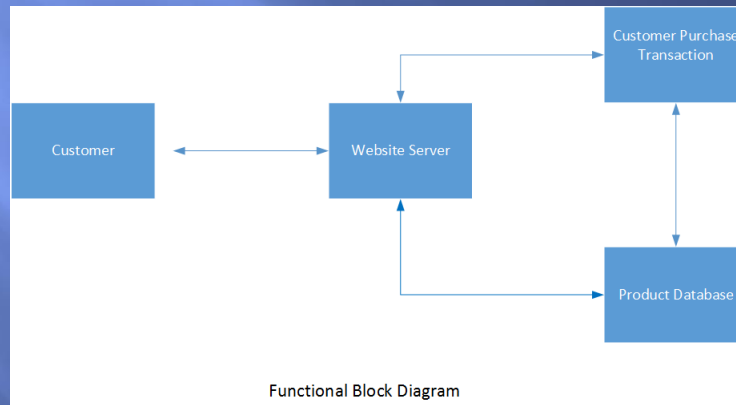
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System Design

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Functional Description

- The Ecommerce site will:
  - Allow visitor (customer) to view the sites home webpage
  - Allow visitor to select items and quantities
  - Upon a visitor's request to purchase an item(s), the site will record the request details and if sufficient quantities are in stock the site will request payment details
    - For items with insufficient quantities in stock, an "out of stock" or "partial quantity available" message will be sent to the customer
    - For partial quantities available, ask customer their preference from the following:
      - Accept reduced quantity to amount in stock
      - Back order item(s) not in stock
      - Cancel request for this item
    - For all items in stock, a confirmation of the sale will be sent to the customer

Functional Description (continued)

Functional Block Diagram

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System Requirements

- ▫ The main Ecommerce webpage shall be sent to website visitor upon request
- ▫ The Ecommerce website shall record the customer's purchase request details
- ▫ The Ecommerce website shall send the customer confirmation of purchase details
- ▫ The Ecommerce website shall update the site's product database (e.g. reduce quantities of items sold)

User Interface

- ▫ Laptop computer
  - LAN connection
  - Web browser
    - ▫ Internet Explorer
    - ▫ Firefox

Server System Requirements

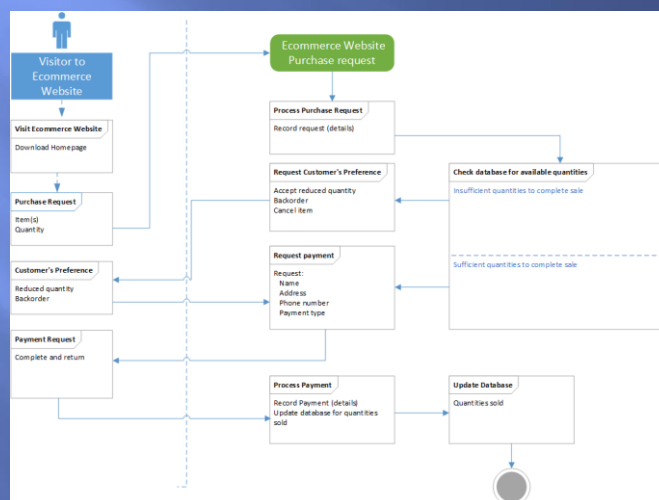The Apache server and MySQL requirements are as follows:

- ▣ Operating System:
  - Windows 7
  - Windows 8
  - Windows Vista
- ▣ Hard drive (total):
  - 480 Mb
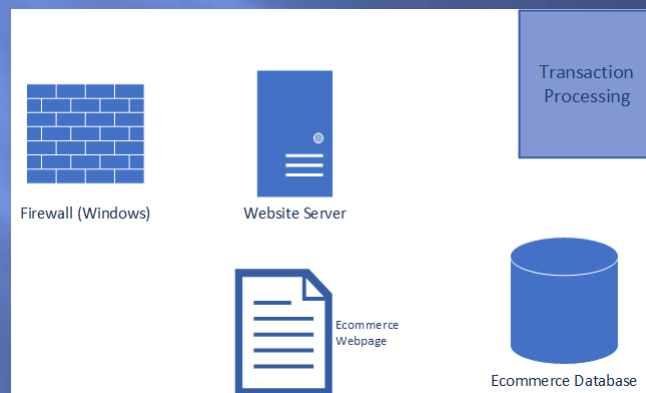
Process Logic

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Major Components

▫ Ecommerce Website

Firewall (Windows)   Website Server   Transaction Processing

Ecommerce Webpage   Ecommerce Database
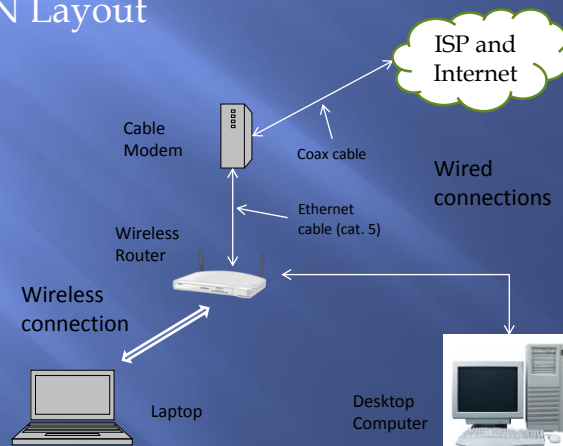
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System Infrastructure

□ LAN Layout

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System Interaction

Conclusion