



CS-602: Server-Side Web Development

Project Guidelines

This document should not be disseminated outside the purview of its intended purpose.

General Guidelines

Focus should be placed on server-side functionality, rather than client-side

- Data persistence should be achieved using either Node/MongoDB, PHP/MySQL, Node/MySQL, or PHP/MongoDB
- Essential requirement: Implementation of REST API endpoints for data in both XML and JSON formats.

Grading Rubric

- Server-Side functionality (50 points)
- Persistence (20 points)
- REST API endpoints(15 points)
- Presenting the project demo and code walk through (15 points)

Example Project

The objective of this example project is to develop a shopping cart application for a merchant's website. The project should prioritize server-side functionality and use either Node.js with MongoDB or PHP with MySQL for data persistence.

The merchant has a list of products for sale, each with a unique ID, name, description, price, and stock quantity. The application should display the full product list and allow customers to search for products by name or description.



Customers should be able to select and order products, specifying the desired quantity. Order submissions should update the available product quantities, and back orders should not be allowed. The customer interface should also display a list of all previous orders.

The admin interface should have the ability to add, update, or delete products. It should also display a list of all customers and, when a customer is selected, display their order history. The admin should have the ability to update or delete existing customer orders.

The application should provide REST APIs in both XML and JSON formats for the product list, products matching a specific name, and products within a specified price range.