

Project Specification Document

ICS 199

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Summary

This project will develop a shopping cart web application using a 3 Tier Architecture. The goal is an intuitive eCommerce website. Therefore, it will display products from a database on a webpage. The user will be able to refine queries of products to individual categories. The page will have a shopping cart functionality - the ability to add, remove, modify, and clear products from the chart. The user will be able to checkout the shopping cart which will implement a third party payment solution to process this checkout. Finally, the system will send an email confirmation of the order to both the buyer and the admin of the site.

Requirements

- Functional Requirements
 - Products from the database must be displayed to the user
 - The user must be able to display products by category
 - The user must be able to add a product to the shopping cart
 - The user must be able to delete a product from the shopping cart
 - The user must be able to adjust the quantity of a product in the shopping cart
 - A total cost of the contents of the shopping cart must be continually updated upon any change
 - The shopping cart must implement a clear-all function
 - The shopping cart must visually display its contents to the user
 - A third party payment system must be implemented to process an order
 - A confirmation email must be sent to the user and admin of the website when processing an order
- Non-Functional Requirements
 - The system will be developed using Agile concepts
 - The project will be managed with a Gantt chart
 - The system will use the Apache web server
 - The system will use MySQL for the database
 - The system will run on the Linux platform

- The system will use Stripe as a third party payment system
- The website will use PHP to communicate with the database
- The website will be implemented in HTML5/CSS
- The website will be able to handle up to 5 simultaneous queries
- The website will respond within 5 seconds of adding an item to the cart
- The website and its shopping cart functionality will take less than 5 minutes to understand how to navigate for the average user

Project Roles

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Team Leader	Manny	Andrew	Josh	Eric	Manny	Andrew	Josh
Database/Backend	N/A	Manny, Andrew	Andrew	Eric	Manny	Josh	Andrew
Middle Developer	N/A	N/A	Eric	Manny	Josh	Andrew	Eric
Frontend Developer	N/A	Eric, Josh	Manny	Josh	Andrew	Eric	Manny
Floater	Andrew, Eric, Manny, Josh	N/A	Josh	Andrew	Eric	Manny	Josh