CSI5380: Systems and Architectures for Electronic Commerce

Project Part 1: “DreamTeam” CD Store – Design Documentation

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# Introduction

The DreamTeam CD Store is an electronic commerce application that allows users to browse and order CDs. The CD Store was developed using technologies that include JSP (JavaServer Pages), Servlets, Web Services, and relational database management systems. Users are able to browse the list of available CDs in the music category of their choice once they have registered and logged in. The list of CDs and information about them is obtained from a relational database. Users can add CDs to a Shopping Cart, update the quantity of each CD in their cart, remove CDs from their cart, and view a summary of their order before they enter their credit card information and submit the order. The web application is secured using SSL.

# High-Level Design



Figure 1: Deployment Diagram

# Conclusion

By using technologies such as JSP and Web Services, an electronic commerce system was developed that allows customers to log in and browse a CD Store catalog, as well as submit orders for CDs. Future extensions could include JavaScript-based client data validation and a cleaner user interface. The main focus of the next part of the project, however, will be to create a Personalization Service with emphasis on product recommendation algorithms, cookie usage for obtaining various metrics about user browsing habits, as well as data mining and visual representation of the obtained values.