

**Sponsor(s):** Paul Sitko ([psitko@sunset.usc.edu](mailto:psitko@sunset.usc.edu), 213-740-9731)

**Partner(s):** Caroline Keating

**Background:**

Caroline's Closet is an existing commercial website selling one-of-a-kind articles of vintage clothing on the Internet (see <http://www.carolinesclosets.com/>)

**Problem Statement:**

The website currently consists of static HTML and all transaction processing is done manually through email submissions for individual purchases. SSL is not implemented and customers must be contacted individually to resolve transactions. There is a lot of overhead involved in maintaining this site. A software developer has developed a VBScript driven backend program that uses an Access database to automate administration and transaction processing for the site. The source code is available, but it is untested and unsupported.

**Constraints:**

Minimize cost

**Objective:**

Design and implement a shopping cart on the Caroline's closet website that includes:

Search capability  
Transaction Processing  
Inventory Management

The existing base of source code can be used or discarded. Also, third-party COTS solutions can be implemented but cost must be kept to a minimum.