TEAM INFORMATION

Team Name/Project Title: Colorado Creative Cabinetry – Design Center

Department: Computer Science

Faculty Advisor(s): Debra Parcheta

Team Members: Robbie Perlstein, Dylan Dewhurst, Henry Granados

PROJECT INFORMATION

Description:
A web application for building digital kitchen blueprints, which assist in planning, envisioning, and pricing kitchen remodeling projects.

Abstract:
Colorado Creative Cabinetry specializes in high quality remodeling of kitchens and bathrooms. A difficult part of the process of designing remodels is satisfying the customers vision of their future kitchen. Occasionally it requires multiple iterations, which is labor intensive for our client and time consuming for their customers. A digital solution is a valuable option which allows customers to design their ideal kitchen at their leisure without the need of salesman interaction.

We are creating a web application that allows customers to draft up basic blueprints of a kitchen and then add details to their design to satisfy their vision. The application contains an administrative dashboard for interfacing with a database and providing simple usage metrics. Kitchen blueprints that are created are saveable, loadable, and exportable. The purpose of exports, is for Colorado Creative Cabinetry's for use with their designer, to better envision the remodel, and actual construction of the new kitchen. These blueprints will also be used to dynamically price the product to customers.

The application is being developed using the best practices for modern web development, specifically RESTful services. The database utilizes phpMyAdmin and mySQL, the routing, templating, and database interface are built with Slim PHP, and the graphical user interface is built using Javascript, HTML 5, and CSS 3.0. The modular structure of the application is such that it will be easily extendible and maintainable by our client, and the choice of technologies should keep the application relevant well into the future.