



Case Study



Icreon

Smythe and Perkins

A web based prescription ordering system

Our client wanted to upgrade their desktop based (MS Access) optical prescription ordering system to a web based application as this would enable their customers to place orders online, from the convenience of their homes. A strong verification mechanism was required to be built into the solution to validate and ensure the accuracy of the prescriptions entered by the customers. The application built by Icreon allows customers to enter their optical prescriptions and forward it to the client's laboratory.

Customer Profile

Smythe and Perkins is one of the leading Optical laboratories in Australia.

Business Requirements

Smythe and Perkins were using an MS Access based system to send optical prescriptions to the laboratory. The maintenance and upgrades to the software was a time-consuming and costly process. To resolve this they wished to migrate the application to the web. The web based solution was required to enable customers to submit their prescriptions directly to the laboratory. The solution was required to cater to the complexity of optical prescriptions to ensure that accurate measurements are entered by the customers. Appropriate messages were to be displayed in case invalid measurements are entered.

Migration from a desktop to a web based application

Based on the requirements, Icreon designed and developed the web based prescription ordering system. The website has been developed using PHP and enables Smythe and Perkins' customers to login and submit order their optical prescriptions online.

Customers can fill-out the detailed prescription form to submit the order. They have the option to choose the location where the spectacles are to be delivered

In the order form customers can select the type of lens that they require. From a listing of all lens types available, customers can choose the desired ones for each eye. On the basis of the lens type selected, the system will automatically populate the order form with the lens details.

The detailed prescription for each eye can be entered separately. These include various measurements such as sphere, cylinder, axis, PD far and near, height above rim etc. Entering a wrong prescription can render the spectacles useless. To prevent this we have built a variety of validation checks ranging from conditional checks to default measurement ranges etc.

Details of the frame types, such as frame eye size, frame bridge size, frame depth etc can also be entered. Customers can select the desired frame shape from a list of available frame shapes. Extras such as lens colour, tint, etc can also be selected.

A user with administrative rights can login to the website and view all the orders placed by customers and can also manage the details pertaining to their company.

Technologies used in developing this application are:

