

ISHIR develops a Pharmacy Management System

Client

A chain of pharmacy stores in the greater London, United Kingdom, area.

Challenge

The challenge was to design and develop a centralized database and a user-friendly, front-end application to assist pharmacists in dispensing drugs to patients using an online/offline POS Pharmacy Management System. This system had to be designed with regards to the ability to expand to a web-based system where prescriptions, patient records, buying history, automatic reminders, integration with insurance companies, credit card processing and much more could be tracked.

Solution

ISHIR started with an onsite seven-week system study in London to understand the business requirements. The system study allowed the correct inputs to design a robust and scalable Pharmacy Management System that could be sold as a hosted solution to other pharmacies. The team designed the system using a client server architecture built on Microsoft .NET framework with SQL server and Crystal Reports. ISHIR's engineering team designed and developed a centralized database and a user-friendly front end to assist pharmacists. The application linked all the pharmacies and had the following features:

- User friendly GUI for pharmacist (AJAX)
- Application distributed across various pharmacy outlets
- Role based security
- Multi store capability
- Dynamic report generation
- Point-of-sale (POS) integrated with POS equipment
- Drug information management
- Clinical alerts for various allergies or patient history
- Label generation & receipt printing
- Inventory management
- Faster insurance claim processing (web services)
- Credit card processing
- Web based patient record management
- Ecommerce based pharmacy with distribution from nearest store location

Results

ISHIR's global delivery model coupled with its software engineering experience to produce a team in the healthcare domain leading to the following results once the system was built:

- 30% reduction in time-to-market*
- 55% savings in overall development costs*

* The results above are based on estimates submitted by a competitive United Kingdom based software development firm.

Technology

The solution was developed on the Microsoft .NET platform with ASP.NET, C#, VB.NET, AJAX and SQL Server used for the database.