

Customer: Forth World Media

App Name: PEM Soft

Location: USA, Australia

App Functionality: Pediatric
Emergency Medicine Software

Industry: Medicine and Health Care

Developed on: Mac

Deployed on: Cross Platform

Result: A healthcare solution used
in over 20 countries

About University of Vienna:

Forth World Media is a bespoke
software apps consultancy.

Business Need:

Develop a cross platform Pediatric
solution which is easy for doctors
around the world to use and keep
upto date.

Benefits of LiveCode:

The ease of use speed of
development in LiveCode allowed
PEM Soft to be developed quickly
by a diverse team of developers
and medical specialists. LiveCode
saved us a huge amount of time
and money, whilst delivering a
robust system which met our
complex business needs.



Building Pediatric Emergency Medicine Software and Kids Care Clinical Library

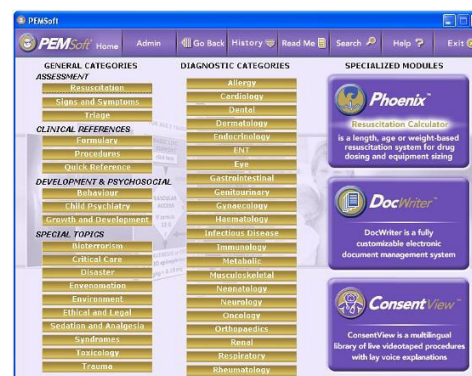
Introduction

PEMSoft (Pediatric Emergency Medicine Software) is a LiveCode - based decision support system used in pediatric emergency clinics. It had been developed by a team of 20 specialists based in the US, Australia and other countries, led by Richard Gaskin at Fourth World Media. It is available on a subscription basis with annual releases which reflect current pediatric practices, and expands the scope of the program's content and features.

PEM Soft - Physician driven mission

- To provide point-of-care decision support to clinicians and other healthcare professionals striving for safe and high quality patient care.
- To publish current clinical information, based upon national recommendations and authoritative references.
- To assure electronic information access that is fast, simple, and intuitive.
- To provide physicians and other healthcare professionals the educational tools to teach medicine efficiently and visually.

PEM Soft has more than 3000 clinical topics supported by more than 2700 graphics and dozens of procedural video clips. With so much information designed for use in a time-sensitive clinical setting, a thorough and efficient search tool is essential. PEMSoft's search tool rapidly searches across all of its content using a keyword index we designed for the task. It supports Boolean searches for single or multiple terms, can optionally include related synonyms in its search, and ranks results according to potential relevance. Such complex search routines took significant testing and with LiveCode's lightning-fast chunk expressions for parsing text, even the most complex searches are usually completed in under a second. In addition to its rich-media reference database, PEM Soft also includes three additional modules:



Phoenix - a tool for quickly calculating drug dosages and equipment sizes, with additional reference information for protocol. Phoenix includes procedural flowcharts of more than two dozen of the most common treatment protocols. Using LiveCode's built-in vector graphics tools we were able to create these flowcharts right in the program, with interactive elements to provide additional information and hyper-linking for the user.

DocWriter - a document management system for organizing and retrieving policy and procedure guidelines. DocWriter not only organizes and displays documents, but also allows the user to create new documents and edit them. The integrated word processor provides basic text editing and styling tools, and allows images to be added to documents thanks to LiveCode's excellent support for inline images and drag-and-drop.

ConsentView - a library of video procedures illustrating common procedures to obtain informed consent. ConsentView is a relatively simple video player, and LiveCode's media player object allowed us to complete that module in less than a day.

Richard Gaskin – Fourth World Media

This project is ambitious, and I'll admit it sometimes leads to some late nights. However when I read the feedback from doctors around the world using PEMSoft, it makes it all worthwhile. This one from a hospital in Australia was particularly rewarding: We all feel it is an excellent product and covers the breadth of emergency paediatric problems, resuscitation and includes an up to date formulary. Navigation through the software and it's ease of use - including the interactive resuscitation guides - are excellent.



About RunRev

Founded in 1997, RunRev is a technology company committed to making scalable software development fun, easy and accessible to everyone. To achieve this RunRev has created LiveCode.



About LiveCode

LiveCode is an award winning, high level, cross platform, integrated development environment. Its compile free work flow and highly efficient single code base enables Apps to be developed on Windows, Mac and Linux and deployed on all popular platforms including Mobile, Desktop, Cloud and Server. LiveCode is used around the world by organizations of all sizes to solve real world business problems.

Today millions of people use Apps built using LiveCode.

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