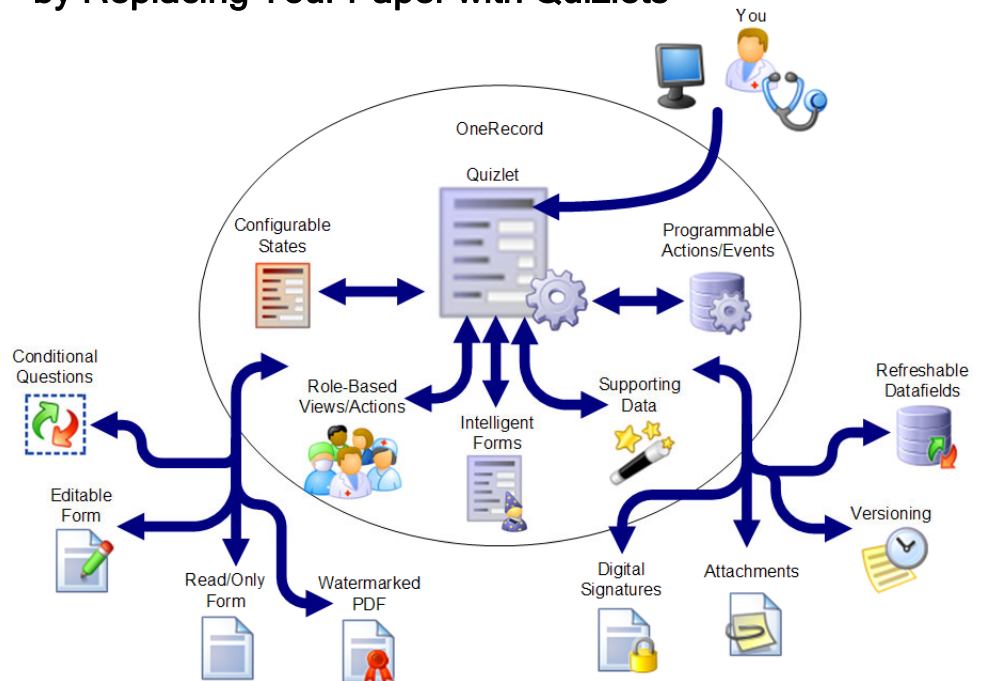


# Quizlets

*“Vision is the Ability to See What is Possible Before it Becomes Obvious.”*

*-RelWare Development*

## Add Intelligence and Power to Your Forms by Replacing Your Paper with Quizlets



### Scenario

You need a strategy for collecting your clinical documentation, but you also want to move forward with computerized physician order entry (CPOE), and would like to have them integrated.

You also have countless paper forms, many of which would improve if they were standardized, and would be easier to use if they pre-populated known information.

Almost all of the forms have sections that do not apply except under certain conditions, and most have complex business rules associated as well.

Some need digital signing, some co-signing, some even *more* signing, and all should be locked to a read-only view unless the user has the rights to update it.

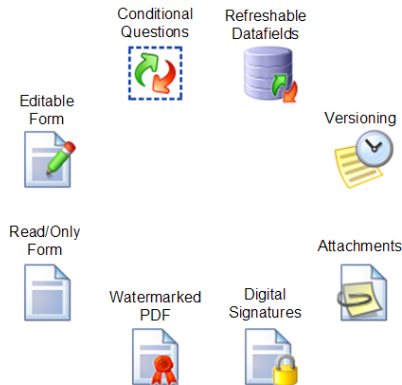
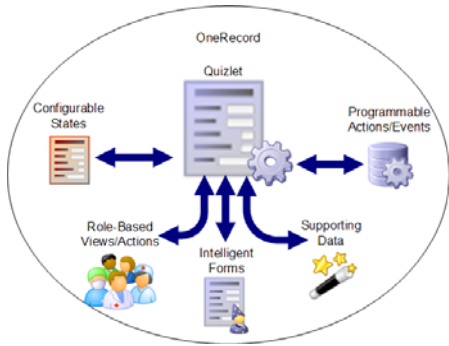
### RelWare Solution

You select RelWare's Quizlets, knowing that anything from the simplest form to the most complex clinical pathway can be accomplished with this single technology.

Quizlets are intelligent, programmable forms, that are state-based, with role-based actions. Based on Model-View-Controller methodology, a Quizlet is able to render itself as an editable form, read/only form, locked PDF (with or without watermarks), and an unlocked PDF.

Quizlets are powerful in that they are small X2A2 programs, able to perform database executions or call workflow engines on any state transition. Actions can be created, assigned, and configured to do just about anything. . . except fill themselves out.





### Quizlet Technology

Quizlets are well-defined XML blocks that are broken into different sections. The most obvious of those is the form itself, which is composed of Groups, Questions, and optional Layouts.

Groups are most often thought of as sections of a form, which contain one or more Questions. The Group may also have Layouts, allowing for customizing the look and feel of the form, allowing it to look nearly identical to the original paper form. These may also be set to be organized one way when being filled out, and another when printed.

Each Question in a Quizlet is of a particular type. There are obvious examples, such as checkboxes, radio buttons, and the like. However, we are also able to build our own Question Types. Some of these include custom Calendar selection, "Word-like" formatted text entry, "typomatic" database selections, and more. As these are small X2A2 programs, we can add new Question Types to fit most any data entry need.

The more powerful aspects of Quizlets, however, are the Data and State blocks. These control how the Quizlet behaves when any action (*e.g. View, Submit, Reject*) is performed upon it. A Quizlet can have any number of possible "states" for it to be in. Further, the allowable actions in each state are determined and built within each Quizlet, providing for ultimate flexibility.

### Supporting Features

Knowing that each Quizlet is a small X2A2 program, they are able to utilize several features of the architecture. Obviously, they have the capability to perform actions such as looking up supporting data and pre-filling questions, text areas, or the like.

However, as they have been incorporated into the Portlet Architecture, we have been able to give them even more power and capabilities. For instance, when being viewed in a "Print" mode, we are able to render the Quizlet as a PDF, adding any watermarking or security traits. Due to the state-based nature of Quizlets, they may freely move from any state to any other state, whether it is editable, read-only, or PDF.

We have also built in security concepts for multiple levels of digital signing. This includes not only the capture of a user's credentials and audit logging, but also the ability to capture multiple signatures in a state-wise manner (*i.e. author's signature followed by supervisor then manager*).

### RelWare's X2A2

The X2A2 is a lightweight, yet powerful application engine that is the core of our Web and workflow engines. It was built using XML from the ground up, and has been RelWare's primary development platform for the past five years.

RelWare's constant commitments to technology and excellence arrived on this patent-pending programming methodology in 2003. We realized then that XML was the data medium of the future, and had already known that the Web would continue to be the delivery mechanism.

The X2A2 merges these into a powerful, flexible engine, with built-in and external connectors that give them the ability to do almost anything.

### About RelWare Technology

At RelWare, we realized in 1998 that the Internet, and specifically, Web-based technology was the future. We built our company with the continued motto: "Every application is a Web application." This meant that anytime we looked at writing a new application, we first asked ourselves, "Can I write this as a Web application?" What we soon found was the answer was invariably "Yes". . .every time.

It has been 10 years since we started, and we are still saying "Yes". . .every time.

