



## THE CHALLENGE

Our client is a startup that handles outsourced clinical study management. This highly regulated and complex process can truly benefit from sophisticated software automation. And our client needs to commit to an ongoing development effort to succeed. Yet it is difficult for a small startup to spend what it takes to build CTMS (clinical study management systems) using traditional development methods.

## THE SOLUTION

We strongly recommended building a CTMS system based on SharePoint technologies. SharePoint provides a strong foundation that supports collaboration, customization, work flow, and document management. It also greatly simplifies building custom applications especially when they can use SharePoint as a data store along with the built in SharePoint CRUD screens.

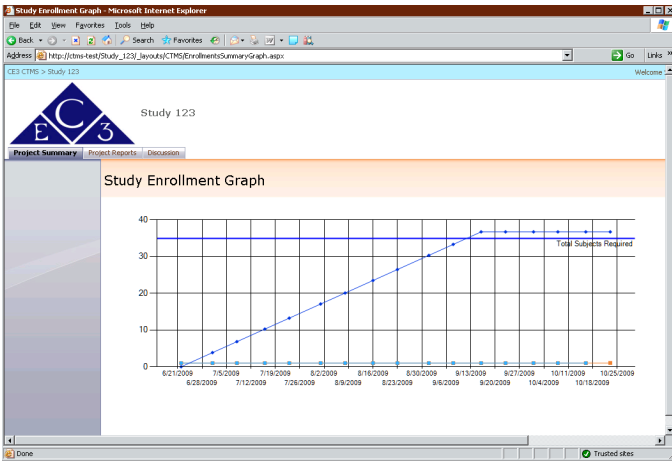
The bulk of our application consists in glue code that orchestrates SharePoint features such as lists, document libraries, and the permission model.

The screenshot shows a SharePoint-based web application for clinical study management. The main content area displays 'Project Information' for 'ABC1001', including details like 'Phase 2', 'Randomized Controlled Phase 2 Trial', and 'Drug will be available July 1'. Below this is a 'Milestones' table with columns for Title, Baseline Date, Draft Date, Completed Date, Modified, and Modified By. The table lists various project milestones such as 'Final Synopsis', 'Final Protocol', and 'First Patient First Screening Visit (FPFSV)'.

Title	Baseline Date	Draft Date	Completed Date	Modified	Modified By
Final Synopsis	6/5/2009	6/11/2009	6/12/2009	6/3/2009 1:09 PM	Steve Biaty
Final Protocol	6/18/2009	6/26/2009	6/26/2009	6/3/2009 1:06 PM	Steve Biaty
Final Approved CDF	6/23/2009	6/23/2009	6/3/2009 12:53 PM		Steve Biaty
Study Drug Available	7/6/2009	7/6/2009	6/3/2009 12:54 PM		Steve Biaty
Investigator Meeting	7/31/2009	7/31/2009	6/3/2009 12:55 PM		Steve Biaty
First Patient First Screening Visit (FPFSV)	8/19/2009	8/19/2009	6/3/2009 12:56 PM		Steve Biaty
First Subject First Dosing Visit (FPDV)	8/30/2009	8/30/2009	6/3/2009 12:56 PM		Steve Biaty
Last Patient First Screening Visit (LPFSV)	9/4/2009	9/4/2009	6/3/2009 12:58 PM		Steve Biaty
Last Patient First Dosing Visit (LPDV)	9/30/2009	9/30/2009	6/3/2009 12:58 PM		Steve Biaty
Last Patient Last Visit (LPLV)	9/30/2009	9/30/2009	6/3/2009 12:59 PM		Steve Biaty

Web parts facilitate the custom presentation of data and developed numerous custom work flows. Wherever possible we integrated free and commercial SharePoint add-ons to lower development costs.

Though SharePoint is a super capable platform, there are certain aspects. We integrated technologies such as JQuery, LINQ, and the newest MS Charting control to make it even better.



## RESULTS

Having built similar systems for other pharmaceutical clients we were very pleased to be able to build such a powerful application for a quarter of the price of one built using traditional techniques.

We continue to work with our client to enhance the application and help grow the business. We constantly monitor the SharePoint market to find new products we can use to quickly and cheaply add new features. For example, we are currently evaluating a reporting tool that will allow for self-service BI against SharePoint data.

