McDaniel Saves 450 Hours on Oil & Gas Reporting with WPF
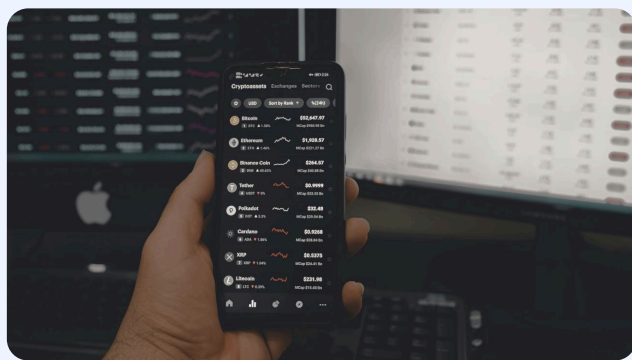
450 hours saved in development time

Advanced, flexible features

Customizable controls

Use Case

Used the Syncfusion® WPF Charts for forecast reports and other controls for data entry and reporting.

Problem Summary

James Athyal of McDaniel & Associates Consultants Ltd. needed advanced features to build a desktop application for data entry, manipulation, and report generation. The application required complex charting capabilities, such as logarithmic axes, multiple axes, multiple series, and custom labels, along with customizable windows and ribbons. Additionally, the solution had to be professional in appearance and easy to use.

> *"Syncfusion's tools have taken care of many things so I can focus on developing the application, instead of developing tools for the application."*
>
> **–James Athyal,** Software Developer, McDaniel & Associates Consultants Ltd.

Industry
[Oil and gas ⤤](#)

Company
McDaniel & Associates Consultants Ltd

Region
Canada

Customer Detail
James Athyal, *Software Developer*

Challenges

- ⊗ Needed advanced features for building a desktop application for data entry, manipulation, and report generation.

- ⊗ Required complex forecast reports with logarithmic axes, multiple axes, multiple series, and custom labels.

- ⊗ Needed to generate charts and embed them as images in PDF reports.

- ⊗ Required additional tools to enhance user workflows for data entry and manipulation.

- ⊗ Wanted to avoid building custom UI and charting tools from scratch, which would significantly prolong development time.

Solutions

- ⊘ Used the Syncfusion WPF Charts and other WPF controls to build a feature-rich and professional desktop application.

- ⊘ Syncfusion WPF Charts provided all required advanced charting features out of the box, including logarithmic axes, multiple axes, multiple series, and custom labels.

- ⊘ Used Syncfusion WPF Charts to generate charts and embed them in PDF reports as images.

- ⊘ Implemented Syncfusion Autocomplete, Busy Indicator, Docking, DataGrid, and Ribbon controls to create smooth, efficient workflows.

- ⊘ Syncfusion's ready-to-use components handled most UI and charting needs, allowing developers to focus on business logic instead of tool development.

Introduction

McDaniel & Associates Consultants Ltd. is a global leader in petroleum consulting, specializing in reserve certifications and economic evaluations. With deep industry expertise, the firm delivers advanced solutions for data analysis, forecasting, and reporting, helping clients make informed decisions in the oil and gas sector.

Implementation

To enhance its desktop application for data entry and forecast reporting, McDaniel adopted Syncfusion's WPF controls. The team integrated the WPF Charts control to support advanced forecasting needs, including logarithmic axes, multiple axes, multiple series, and customizable labels. Charts were exported as images and embedded into PDF reports to streamline evaluation workflows.

Beyond charting, the application was expanded using additional Syncfusion WPF components, such as Autocomplete, Busy Indicator, Chromeless Window, Docking, DataGrid, and [GH1] Ribbon. These tools simplified data entry, improved navigation, and enhanced the overall user experience. Syncfusion's controls enabled rapid development, allowing the team to focus on core application functionality rather than building UI tools from scratch.

Results

- Eliminated the need to build custom charting and UI components from scratch.

- Accelerated development of forecasting, data entry, and reporting features.

- Improved application usability with professional, customizable WPF controls.

- Reduced development workload, allowing more focus on core business logic.

Future Plan

McDaniels plans to continue enhancing its application by adding more Syncfusion WPF controls and improving reporting and visualization features. The company also hopes to expand the tool with more automation and modern UI elements, making the application faster, easier to use, and ready for future scaling needs.

Conclusion

McDaniel & Associates Consultants Ltd. used Syncfusion's WPF Charts and other controls to build a feature-rich desktop app for data entry, manipulation, and reporting, complete with advanced charting, custom ribbons, and intuitive UI components. Syncfusion's tools saved the development team time and enabled them to focus on solving real business challenges. If you're ready to innovate, explore our **Essential Studio® Community License, BoldSign® Essential plan**, and **BoldDesk® for Startups**. Start building your stunning app today with a fully functional **30-day free trial**—your journey begins with one click.