



Web-based Application for Construction Industry Workflow Management

The Client

The client is one of the leading businesses in Canada and a major player in the construction and real estate industry. Their offerings span various sectors, encompassing community, rental, commercial, and land development.

The Challenge

The client, a major service provider in the construction and real estate industry, faced a daunting task managing all their complex business processes without a unified application. From the initial stages of project development, encompassing designing, budgeting, documentation, workflow, and management, they lacked a single tool to facilitate proper workflow. Their primary challenge was the lack of customized software for the construction domain, which hindered productivity and overall business efficiency by complicating data storage, management, and optimization.

Our Solution

This is where Veltris comes in. Veltris provided a tailored digital product engineering solution that addressed the specific requirements of their domain. We then thoroughly analyzed their business workflow and how the company operates in every phase of its project development. After gathering all details, we identified workflow gaps and designed custom software to digitalize all their processes.

We developed this dynamic application to enable the client to centralize all data on their existing website, eliminating the need for a new system.

This custom software, Basic Builder (BB), features multiple modules that comprehensively track all work, including invoicing, workflow, sales, project reports, and documents, managing the entire process from material purchase and design to client handling and final project completion.

We developed this application to support both web and mobile devices. It allows the client's multi-regional business to access data from diverse locations. Basic Builder (BB) features modules for Admin, Web front, project management, invoicing, sales, and reports.

Tools We Used

We developed this application from the ground up using our preferred Agile methodology. The development phase was structured into multiple 15-day sprints.

For work management, we leveraged Azure DevOps, Visual Studio for project execution, and Swagger to test the APIs.

Our Results

The result was a happy customer who was extremely satisfied with the final product—its quality and timely delivery. The BB tool helped the client manage their entire workflow, documents, and everything that goes into their projects on the online platform. While many businesses struggled to maintain a steady workflow during the pandemic, our tool empowered the client to defy the odds and continue growing despite the hurdles.

Our product's UI design was so user-friendly that the users didn't require any training to understand the application. We even suggested and implemented improvements by refining specific functionalities within the application..

Here are the four modules and their features that we built for our customers.

Construct

With BB's Construct module, users will get constant real-time status updates on the project. It features an easy-to-navigate dashboard with pre-configured construction templates and a tracking system to manage build times linked to key milestones.

- » Other features include:
- » Visual Scheduling Planner
- » Validated Construction Progress
- » Delay Management
- » Reporting and Exports
- » Integrates with your Purchase Orders
- » Flexible Construction Scheduling
- » Construction Progress Pictures

Docs

Another module offered by BB provides users with a single source to view and manage all their construction-related documents. These documents are accessible from anywhere and at any time. Two interesting aspects of this module are that it comes with preloaded complete construction libraries and security templates for assigning access roles to newly added vendors.

- » Some of the features of this module are
- » Pre-Configured and Customizable Access Controls
- » Electronic Notifications
- » Project Contact Information
- » Realtime Vendor Portal
- » Realtime Vendor Portal
- » Link Documents to Purchase Orders

Office

Using the office module of BB, you can digitize your entire office. Integrating with Enterprise Resource Planning (ERP) in real-time, the office module streamlines complex operations and removes bottlenecks.

There are two different kinds of features added to this module. One is the Accounting features, and the other ones are Operations features.



Accounting Features

- Chart of Accounts
- Accounts Payable
- General Ledger
- Accounts Receivable
- Check and EFT/ACH Payments
- Subcontractor Tax Reporting



Operations Features

- Item Library
- Job Costing
- Progress Billing
- Draw Purchase Orders
- Variance Purchase Orders
- Real-time, Free, Vendor Portal
- Integrated Invoicing
- Automatic Change Logs
- Allocations
- Retention / Holdbacks
- Sales and Deposit Tracking
- Change Notifications
- Workflows
- API Enabled

Sales

One of the best module offerings is from BB, which helps you sell homes using your mobile. Yes, you heard that right! This feature works with both web applications and mobile devices. This module offers powerful features that significantly reduce paperwork and save time.

This module becomes even better when you combine it with BB's Docs and Construct modules. Doing that will offer you a one-stop solution for information to your customers and sales team.

Here are the features that you should know about:

- » Sales Dashboard
- » Pricing and Inventory Management
- » Model and Upgrade Libraries
- » Offer to Purchase Generation Wizard
- » Easy-to-use Mobile App
- » Presales & Spec support
- » Reporting Regional Tax and Rebate Calculations
- » API Enabled
- » Link Construction Progress to Sales

Key Benefits

The application significantly enhanced the client's business productivity and functionality, making a notable difference in several key areas.

You can see those key areas listed and explained below.



Managing construction plans and designs

The BB application centralizes construction plans and designs, significantly simplifying their management. Only a construction manager, site supervisor, or other assigned personnel will have access.



WorkNow management

Our BB solution simplifies understanding, managing, and tracking the entire workflow, from planning to execution and final delivery.



Admin and Access management

With BB's digital transformation, project details and sensitive information are securely accessible only to authorized users through Administrator-granted privileges.



Document management

All project documents are accessible from a centralized location, neatly categorized by project and personnel, and are also conveniently available on mobile devices.



Sales

Granting sales executives access to this BB module empowers them to fully leverage its features for making offers and sales, while the module automatically tracks all sales activities.



Accounts payable and receivable

Speaking of tracking sales, it is equally important to keep track of your accounts receivable, if not more. If you don't keep track of the money you receive or owe, your business might get into trouble. Fortunately, BB offers a simple dashboard with charts and graphs that will help you keep track of your cash flow.

About Veltris

Veltris is a Digital Product Engineering Services partner that delivers next-generation technology and industry solutions across the healthcare, technology, communications, manufacturing, and financial sectors.

Veltris enables clients to build, modernize, and monetize smarter products and platforms powered by Connected Industry AI solutions. Through an experience-centric approach, agile delivery, and differentiated talent, Veltris helps businesses optimize product development cycles, monetize platform investments, and drive transformative outcomes in niche micro industries.

