



Conasys Increases Efficiency with Construction Deficiencies Review App

Conasys offers a cloud-based homeowner care platform designed to allow new home builders and real estate developers deliver a more engaging and interactive home ownership experience by leveraging technologies that the modern day home dweller demands. Their platform comprises several key components, including interactive homeowner and builder specific portals. The former allows homeowners to instantly access a detailed home profile, on the fly from any device. This information includes operating manuals, warranty information and even paint codes. The builder portal includes a full suite of efficiency and communication tools, including a service request management system and a Deficiency iPad app that has revolutionized the pre-delivery inspection process.

Conasys Inc.

Industry	Location	Employees
Real Estate	N. Vancouver, BC	<50

Highlights

- Assisted with the design of API's and then integrated with the mobile application.
- Designed application to save data real-time when entered to prevent loss of information.
- Designed an easy-to-use user interface that reflected the company's brand.

The Need

Construction deficiency reviews are typically completed with the builder and homeowner using a pen and paper. Conasys is seeking a development partner to create a native iOS mobile application for iPad that will work online/offline and streamline the deficiency review process. Conasys would like the UI/UX to be easy-to-use and match their brand.

Key Challenges

- Design APIs that are fast enough to simultaneously handle multiple requests.
- Post large values in JSON format via HTTP, as well as large data volumes.
- Process large data volumes including high resolution product images and signature images from uploaded deficiency reviews.
- Work offline and sync with the client server when an Internet connection is available.
- Integrate the device camera and gallery to allow users to attach photos.
- Design an easy-to-use GUI that reflects the company's brand and is consistent across multiple versions of iPads.

How Optimus Helped

1. Optimus met with the client to discuss the project requirements and understand the success criteria. The goal was to comprehend how site inspectors would use the application on a day-to-day basis.
2. The Optimus team created the wireframes for the app and reviewed them with the customer. It was important that the application was easy-to-use during home inspections and was responsive to work on different iPad sizes.
3. After the client signed off on the wireframes, Optimus designed the GUI for the application. The GUI was created to be consistent with the client's brand and website look and feel.
4. The Optimus development team created a native app to be supported on iPad and REST APIs to update and retrieve data from the

application's external storage system. We optimized the API call using thread-safe to avoid conflict or data loss.

5. Optimus set-up a complete integrated staging environment in order to quickly verify enhancements enabling faster production deployment.
6. A bug free application was delivered to the client who uploaded it to the Apple AppStore with Optimus' assistance.

"After initially hiring Optimus for a technical audit of our homeowner portal application we were so impressed with their knowledge, responsiveness and quality, that we hired them to develop the mobile version of our application. We have been very satisfied with Optimus and not only plan to continue with them, but also would like to recommend their services to anyone with a challenging mobile development project."

Jerry Bauer
CEO

The Result

At the end of the project the client had an application that allowed their site supervisors to perform the offline deficiency reviews in the field, upload the reviews to the server and share their daily reports via email.

About Optimus Information

Headquartered in Vancouver, Canada with delivery centers in Canada and India, we work as a trusted partner to medium and large businesses to solve their software and technology challenges. With a team of 150+ people Optimus Information provides global organizations with scalable, flexible and cost efficient solutions. **Optimus Information provides global reach with a local presence.**

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