CONASYS

Technical Audit Identifies Areas for Improvement in Conasys Homeowner Portal

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

- Completed a code review to understand the Homeowner Portal code.

- Analyzed the reports generated by the Static Analysis Tools.

- Captured a list of areas for improvement and present a technical audit report to the client.

The Need

Conasys' Homeowner Portal was rapidly expanding in terms of complexity and lines of code. The product was performing satisfactorily, but was beginning to show performance problems that would affect user experience and their ability to grow their product. They were looking for a company to perform a technical audit to identify areas that needed to be improved in the short-term.

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Key Challenges

- Complete a code review to understand the Homeowner Portal code.
- Run Static Analysis tools to analyze the code without executing, or running, the software.
- Analyze the reports generated by the Static Analysis Tools.
- Capture a list of areas for improvement and create a technical audit report to present to the client with short-term and long-term objectives.

How Optimus Helped

Using a mix of in-depth code review, interviews with the client team and static analysis tools, Optimus identified a number of risks to the software.

The client's development team was collectively aware of the technical debt that had consciously accumulated due to business decisions. Optimus identified some previously unknown sources of technical debt and provided a comprehensive view of technical debt.

Optimus identified shortfalls and inconsistencies in architecture and design and also provided solutions which would improve reliability and availability of the product. We also identified some architecture practices that were ill-suited to their particular product and that could be simplified. Documentation also needed to be improved to help new programmers write code effectively.

Optimus identified coding practices that could improve the speed and ease the maintenance and enhancement of software. Optimus also identified major bottlenecks and fixes that could keep the

product running smoothly without investing in extra hardware.

We provided high-level guidance on how QA for development teams of their size is performed and provided professional guidance for their user team as they created and started to use proper test cases.

All action items were prioritized in to immediate, near future and far future categories along with an estimate for the amount of effort required in order to properly inform decision makers.

"Our homeowner portal application was rapidly expanding in complexity and we engaged Optimus to perform a technical audit to identify deficiencies and recommend areas for improvement in the application. We were very impressed with their professionalism and attention to detail throughout the audit. Conasys implemented the majority of Optimus' recommendations and received an exceedingly positive return on our investment."

Jerry Bauer
CEO

The Result

At the end of the project the client had a technical audit report with a list of short-term and long-term areas for improvement and the effort required for each. The client implemented most of the recommendations made by Optimus and the ROI for Conasys has been phenomenal.

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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