Rocket® D3
Application Optimization Project

Discover and fix bottlenecks in your code to gain efficiency overall and the ability to scale. This project is accomplished utilizing an iterative approach while presenting quantifiable results.

Rocket Software Has You Covered
No Matter What Your Requirements Are, We Have A Solution For You!

Rocket recommends an Application Optimization Project to verify that your applications are designed and running at optimal performance.

The Application Optimization Project Comprises:

From creating requests, to gathering approvals, to assigning tasks, to promoting code changes, to deploying those changes across your enterprise servers and tracking every activity, the Rocket ALM Hub is your central manager for all your application DevOps requirements. The Rocket ALM Hub automates and streamlines the entire software development and release process, providing the visibility and control required in an enterprise environment—increasing developer productivity, improving code quality, and helping you easily meet regulatory and best practices requirements.

❖ The Application Optimization Process

❖ Findings and Recommendations Report

❖ Ad Hoc Mentoring Sessions

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The Project Defined

The project's intent is to discover and optimize code to improve application performance while mentoring your staff on best coding practices and alternate methodologies.

D3 Professional Services has discovered there are application design techniques, and data modeling, that will not scale. We commonly discover this problem in applications where they functioned well for a smaller data set. But, as the company grows or historical data increases, applications begin to run slower and slower, until the application no longer provides response times that are acceptable. Often, there may not be a single issue, but a series of issues that must be corrected to gain efficiency overall and the ability to scale. This project will address these situations.

Our Methodology for Acceptance – Quantify

Change management studies have shown that when items are quantified, there is greater acceptance for people to change. To assist with the political, social and emotional aspects of this project, we are quantitative in our approach. The Rocket consultant will time the section of code before and after it was decomposed and reassembled. This way, we can demonstrate what we are proposing and quantify the results. Individuals are more open to change when they see the end result. Our intent is to change the application standards themselves for long lasting results.

The Application Optimization Review

The Rocket consultant will review and observe a single production system environment, then make suggestions for the most efficient utilization of resources to accomplish the task from an application viewpoint. You will define suspected slow processes and the order in which they will be reviewed. As we address a topic area, we will document and explain our actions in the Findings and Recommendations Report. We will then explain these in Ad Hoc Educational sessions and demonstrate techniques to isolate performance problems to individual lines of code that are being executed or the operating system call being made.

Findings and Recommendations Report

The consultant will write the Findings and Recommendations Report containing the items reviewed, issues discovered, and proposing further corrective actions.

Ad Hoc Mentoring Sessions

The Rocket Consultant will conduct small Ad Hoc Mentoring throughout the project. It is common for issues to be discussed numerous times, and move into deeper and deeper discussions.

Other Items of Note

Typically a particular coding technique will be prevalent throughout your application. As the situation is fixed throughout your application, the application will consume fewer and fewer resources. Each iteration will show diminishing results until the system has adequate response time and no further optimization can be achieved.

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Full Disclosure: This Project Creates Follow-On Work!

After the Application Optimization has been completed, the recommendations will have to be implemented. Please remember that the implementation of recommendations is not included in the Application Optimization (excluding the corrective tasks of short duration stated before).

1. You will have to choose what recommendations you wish to implement.

2. You will have to choose whom you wish to implement the solution(s). At your option, Rocket D3 Professional Services will be glad to provide you with a proposal of how much it will cost for us to implement the solution(s) you have chosen.

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