

AvantSoft Services

Enterprise Code Review



Application Development

AvantSoft's global team of developers can help create that next cutting edge application. Whether its banking and wealth management or a mobile field application for the oil industry, our team of experts will provide the skills and talent to drive your software products to the next level.

Architecture Planning

Whether part of an application modernization effort or a new product development, AvantSoft's Planning services will help you plan, scope and budget your next software project. With our years of experience we will carefully examine or help create product requirements for functionality, API, architecture and UI/UX.

Flexible Engagement Models

If you need a team, or just a couple of engineers, AvantSoft's Global team can provide a solution that matches your needs.

- **Foster Agility** - Facilitate knowledge sharing across the code base and team
- **Better Decisions** - Reviews can be used as an entry for change control boards to approve a release/change request
- **Transparency** - Provides detailed insight into the code quality of internal teams, third party or outsourced partners'
- **Standardize** - Enables standardization of coding practices across your enterprise
- **Accelerate** - Reduce costs, defect density, rework and your time-to-market

As teams develop code with more features, more connectivity, and stricter standards than ever before, it gets increasingly difficult to find and remediate flaws. While we adopt agile strategies and continuous integration, the pressures mounts to deliver functional, well performing, and compliant code on time.

So how do companies ensure a successful rollout strategy and confidence in their applications? They hire the best developers, build the best products using the best technologies and practices, and they engage in a professional code review. An objective, third-party code reviews can provide invaluable insight into your applica-

tions, both in development or post-rollout, identifying issues relating to scalability, performance, maintainability, and a variety of other code areas that traditional QA/end-user testing might miss.

A Code review can be thought of as a professional "checkup" on the health of your applications.

What you have at the end is an extensive analysis of the inner workings of your application, an objective code inventory, and a remediation plan which will help your organization move forward to achieve your core business objectives.

Source Code Review Process:

Global Experience

From desktops to mobile applications, AvantSoft has developed software solutions across a broad variety of industries and technology environments.

Our collaboration, performance profiling and development services have helped fortune 100 companies and governments across the globe for over 20 years.

Trusted Provider

AvantSoft provides enterprise-class, yet affordable, software development services with teams that take pride in software quality and performance.

AvantSoft is experienced meeting the demands of mission critical software development, ranging from financial services, defense, and manufacturing through many of the best known names in the high technology field.

For more information on any of our products or services please visit us on the Web at:
www.AvantSoft.com

Week 1 – Code Walkthrough and Architecture Analysis

Day 1 - Gather all relevant documents and code that will be part of the code review. In most cases this includes the backend architecture the application may be interacting with.

Day 2-4 - Walk through the code with the client engineering team, white board and discuss portions of the app, including the who, what, why and where of the application.

Begin discussions about best practices for architecture layout, API calls, framework options, custom components, theming concepts, debugging tools and design approaches.

Day 5 - The engineers will begin to document the findings. In some cases, it may be more appropriate to spend a portion of this time with the client team working through some of the issues identified in the previous days. The team should be taking notes and discussing options in real time.

If a full write-up is required, this will be most of the Day 5 activities. This can be optional and is done based on the client's needs and the nature of the engagement.

Some typical activities and findings may include:

- Architectural Patterns
- Syntax check and relevancy
- Naming Conventions
- Exception Handling
- Memory management
- Code quality and maintainability
- Over-nesting of code
- Unusual component usage
- Recommendations and risk analysis

Week 2 – Remediation Planning and Proof of Concepts

Assist in implementing any remediations that may have been identified and working to optimize the code in whatever direction the team decides is best after the 1st week of review. This refactoring should be used as a template to guide the team in implementing changes in other parts of the application.

Any other topics that are of interest for the team or that are specific to the application will be handled in this week as well.

The AvantSoft team is flexible in determining how best to spend time on the review and will follow the guidance of the client's engineering team. It is our intention to help eliminate potential problems with the user code base in general. This is a collaborative effort and requires the participation of the client team.

OTHER SERVICES

AVAILABLE

Application Planning and Mentoring
Custom Application development
Application Code Review
Application Modernization
Training Services



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