Benefits of Code Reviews

Code reviews are a cost-effective way to determine if your software is up to par. It's also an opportunity for you to improve your code, leading to increases in productivity and efficiency.

- Identifies potential problems
- Allows you to strategize solutions for problems before they become significant issues
- It helps you build on strengths so that you can continue growing
- Provides the opportunity to fix problems before they affect your business reputation or bottom line
- A cost-effective way of finding out if your software is up to par

Types of Code Reviews

1. Code Review - review of the code itself to see if there are any bugs or vulnerabilities
2. End-to-End Review - reviews of the application as a whole, including all the parts outside of the code, like design and usability
3. Retrospective Code Review - review of existing code to see why it's not working properly

Code Review Process

1. Partial code review - where a single reviewer looks at a small section of the code, usually to find problems with the following:
   a. Security
   b. Code usability
   c. Complexity
   d. Maintainability
   e. Duplication
2. Full code review - which examines the entire app or project
3. Automated software inspection system that analyzes your source for errors without human interference from an actual person, usually after being fed your source files.

A comprehensive review of your code should cover the following:

1. Code quality - if your application is crashing or if it doesn't load properly
2. Security - to understand if your legacy app is secure and your member/client information won't leak out
3. Can your legacy application survive the next operating system update?
4. You want to find out if this code can be supported by a team other than the developer who originally built it.
5. You suspect the software was not written well and professionally in terms of industry standards

makeithappen.nyc
web based sites & applications

Conducting a Code Review

Conducting a code review is beneficial in many ways. It helps identify bugs or vulnerabilities in your site's code that you might not have known. It can also help you determine where changes are needed, design improvements, and usability issues.

Style/Coding Standards: There are many reasons why coding standards are essential. First, it's to ensure that the code is readable by other developers on your team. If you want to hire new developers in the future, they need to be able to understand what you wrote. Second, it ensures good design patterns and conventions are being followed so every developer can write consistent code that someone else can easily pick up. Code reviews also help catch bugs before they're released into production, saving time.

Checking for Errors: The first thing you should do is check for errors in the code. Errors could be anything from typos to syntax errors to bugs. You will want to identify whether or not there are any issues with the code that can affect the site's performance.

Next, you'll want to look at the site's functionality. Before conducting this type of review, it's important to understand what should be working on the site and what should not be working on the site. Then check for other problems like design and usability issues. This includes things like if the layout is confusing, if people are struggling with finding their desired content, or if they are running into any technical problems when trying to use your business' website.

Security and Privacy Concerns: There is always a potential security risk to your code in a world where hacking and data breaches are becoming more common. When conducting a code review, it's important to look for vulnerabilities that could put your customers at risk. The privacy of your customer should be a top priority. A code review may show that you're unintentionally collecting information from customers or sending personal emails to customers. In this case, you will need to change the code to protect your customers' data.

Quality Assurance: One of the most critical parts of a code review is ensuring that your site is secure. By conducting an objective assessment of your site performance, you can identify areas of opportunity or concern.

Some of the steps for conducting a code review are:
1. Identify what area of the site you are going to review
2. Identify who is going to do the code review
3. Determine if there will be any automation involved in the process
4. Decide what level of detail the review should cover
5. Create a checklist that identifies all of the elements that need reviewing
6. Decide if the reviewer(s) will be internal or external to your company

Code review process: The process for code reviews varies greatly. The code being reviewed will determine what kind of review you'll have and who is conducting it. For instance, if there were a bug in your site's content, you would need to perform a content-level code review.

makeithappen.nyc
web based sites & applications

Here's a walkthrough of the process:

1. A design team would perform a high-level retrospective code review to see if any site areas could be improved.
2. A developer would then do a more detailed retrospective code review to identify what changes need to be made.
3. If they find something that needs to be changed, they would then make those changes and repeat steps one-two until all issues are resolved or resolved as much as possible.

Why work with us

We offer comprehensive on-demand design and development services. Ideal for companies that do not have a design and development team in-house. Working with us means you have a partner to help manage your design and development needs so that you can focus on running your core business. By partnering with us, you can have our dedicated team help and guide you with:

- Data Visualization
- Custom web development
- Website creation and maintenance
- Database development
- User Experience and User Interface design

Company Experience:

- Ten years of experience developing real-time, performance-critical applications
- Five years of Angular-js and React-js development experience
- Proficient in cloud platforms such as Amazon Web Services
- Proficient in AGILE methods such as TDD, continuous integration, scrum, user stories, iterative development, and domain-driven design.
- Skilled at delivering modular, decoupled, user-friendly applications optimized for performance.
- Expert in Design Patterns and real-time messaging systems.
- Excellent written and verbal communication skills.

Technical Proficiency:

ReactJS	HTML5	Amazon Web Services
Redux	Responsive UI	EC2
MVC Architecture	GIT	RDS
AngularJS	SQL Server	Lambda
Node.js	Postgres SQL	SNS
Axios	Bootstrap	Elastic Beanstalk
Javascript	C#.NET	s3
Stripe integration	REST Web Services	EFS

Phone: +1 415 728 7278   makeithappen.nyc   jenny@makeithappen.nyc