

# Avoid that déjà vu Feeling

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## Abstract

Solving problems is a way for life for us developers. When a problem arises, you want to quickly arrive at a solution, especially if it is a problem you've seen in the past. Keeping a daily log helps a great deal. We will discuss reasons, what to keep track of, and the tools.

## Keep a Solutions Log (Excerpt from PAD)

This section is an excerpt from the recently published book "Practices of an Agile Developer."<sup>1</sup>

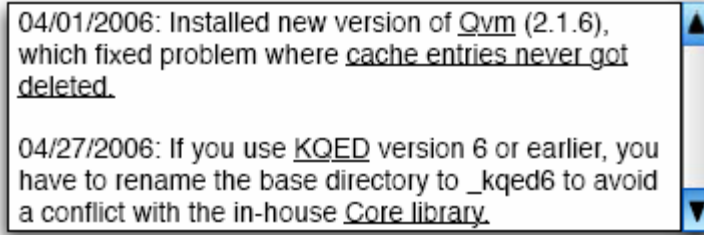
Facing problems (and solving them) is a way of life for developers. When a problem arises, you want to solve it quickly. If a similar problem occurs again, you want to remember what you did the first time and fix it more quickly the next time. Unfortunately, sometimes you'll see a problem that looks the same as something you've seen before but can't remember the fix. This happens to us all the time.

Can't you just search the Web for an answer? After all, the Internet has grown to be this incredible resource, and you might as well put that to good use. Certainly searching the Web for an answer is better than wasting time in isolated efforts. However, it can be very time consuming. Sometimes you find the answers you're looking for; other times, you end up reading a lot of opinions and ideas instead of real solutions. It might be comforting to see how many other developers have had the same problem, but what you need is a solution.

To be more productive than that, maintain a log of problems faced and solutions found. When a problem appears, instead of saying, "Man, I've seen this before, but I have no clue how I fixed it," you can quickly look up the solution you've used in the past. Engineers have done this for years: they call them daylogs.

You can choose any format that suits your needs. Here are some items that you might want to include in your entries:

- Date of the problem
- Short description of the problem or issue
- Detailed description of the solution
- References to articles, and URLs, that have more details or related information
- Any code segments, settings, and snapshots of dialogs that may be part of the solution or help you further understand the details keep the log in a computer-searchable format. That way you can perform a keyword search to look up the details quickly. Figure below shows a simple example, with hyperlinks to more information.



When you face a problem and you can't find the solution in your log, remember to update your log with the new details as soon as you do figure out a solution. Even better than maintaining a log is sharing it with others. Make it part of your hared network drive so others can use it. Or create a Wiki, and encourage other developers to use it and update it.

### **What It Feels Like**

Your solutions log feels like part of your brain. You can find details on particular issues and also get guidance on similar but different issues.

### **Keeping Your Balance**

- You still need to spend more time solving problems than documenting them. Keep it light and simple; it doesn't have to be publication quality.
- Finding previous solutions is critical; use plenty of keywords that will help you find an entry when needed.
- If a web search doesn't find anyone else with the same problem, perhaps you're using something incorrectly.
- Keep track of the specific version of the application, framework or platform where the problem occurred. The same problem can manifest itself differently on different platforms/versions.
- Record why the team made an important decision. That's the sort of detail that's hard to remember six to nine months later, when the decision needs to be revisited and recriminations fill the air.

### **Tools To Keep Solution Log**

Tools that you use must be convenient to use. It must be easy to create log entries, but more important, it must be easier to search. For years, I had kept my log in a Microsoft Word document. It was relatively easier to edit and easy to search as well. However, the structure was quite flat. Wiki's are great to create use, especially if I want to share with others. On projects, we use Wiki's pretty effectively not only to keep solution log, but also to keep our discussions. These help a great deal than exchanging emails since we have one place to go to and search later on.

These days I keep my personal solution log in a pretty neat tool called TiddlyWiki<sup>2</sup>. It's a tool that makes extensive use of JavaScript. It is a single HTML file that you can put on a flash memory and carry around if you like (mine is safely check in and updated in subversion). You can create hierarchy or thread of topics. Since I do research on several topics, it has helped me a great deal to organize resources, references and thoughts. It takes less than two minutes<sup>3</sup> to start using it.

Main Tiddlers...

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Useful URLs  
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## Useful URLs

Venkat, 30 June 2006 (created 15 April 2006)

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## Conclusion

Solving problem is our way of life. However, we don't want to be burned twice by the same problem. When we see a problem, we need to arrive at a solution quickly, especially if it is similar to a problem we've seen. Maintain a solution log to keep track of problems, solutions, and resources that will help you narrow solutions.

## References

1. Venkat Subramaniam and Andy Hunt, "Practices of an Agile Developer," The Pragmatic Programmers. <http://pragmaticprogrammer.com/titles/pad>.
2. <http://www.tiddlywiki.com/>
3. <http://www.blogjones.com/TiddlyWikiTutorial.html>