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Assignment 3
Key Strategies for successful Software Maintenance

Preamble:

One of the most widespread misunderstandings regarding the software development cycle is that it ends after the software is deployed. However, following deployment, there is another critical stage: maintenance. After the active development period, software maintenance takes place to fine-tune the product's functionality.

Periodic software refreshes and preventive maintenance are required to guarantee that it operates smoothly and to lessen the likelihood of a problem occurring. Software maintenance is crucial since it modifies and updates software applications on a regular basis. To increase job efficiency and system performance, the method is effective in removing malfunctions and all probable faults.

This is why we must maintain software, and it is critical to comprehend the essential strategies for successful Software Maintenance.

Project Author View:

Andrew Radcliffe writes on his blog that there has never been a better moment to concentrate on software maintenance and improving software maintenance practices. Importantly, the software maintenance practices he outlined will aid individuals in onboarding new team members or updating their product. They will also assist them in lowering the cost of software maintenance.

To begin, Radcliffe suggests going over the documentation. Many developers, he claims, do not maintain their program documentation or do not realize how crucial it is to do so. When someone wishes to upgrade their program, this can cause problems. Writing detailed software documentation, contrary to popular belief, is a critical part of the maintenance process.

Also, Radcliffe suggests moving at least a portion of the product or process to the cloud since it is reliable, scalable, secure, flexible, and cost effective.

Aside from using the cloud, he recommends investing in quality assurance and taking the time to inspect the code quality when reorganizing operations.

Potential Generalized View:

Another author, Daniel Martin, agrees with Radcliffe that investing in quality assurance, automating the software maintenance process, and migrating systems to the cloud are all good ways to improve software maintenance.

Martin also suggested a few additional crucial elements to help with software maintenance. One of them is to pay attention to the support desk at all times. They are usually the ones who get all of the complaints and issues that people have. They learn which apps or parts of apps are the most problematic, as well as why. Listening to the help desk allows you to gain insights, brainstorm ideas, and assess performance.

Another author, Mary E. Shacklett, sided with Radcliffe and Martin, adding that listening to the help desk, engaging quality assurance, and considering shifting some of the software to the cloud can all assist enhance software maintenance.
Mary went on to suggest that installing new software releases should be done in a uniform manner. This maintains the software release process structure and relieves the burden on the help desk and maintenance staff.

Personal Viewpoint:

To summarize, software maintenance is just as vital as software creation. I feel that software's lengthy lifespan is dependent on its ability to be upgraded so that it can run smoothly on the system.
Also, I completely agree with the writers that it is critical to maintain software, as well as the methods they suggest for doing so.
Sustaining detailed documentation, for example, can assist developers in maintaining the product. Uploading data to the cloud is also necessary because no one can predict when software will break or when data will be lost. As a result, putting it in the cloud is a fantastic idea.
Furthermore, it is critical to check the code's quality. It gives the team a new perspective on what they're doing, especially if it's done by an outside team.
I also believe that one should pay attention to the support desk, since they are the ones that get all of the software complaints, allowing the team to work on the issues.
As a result, if one wishes to properly maintain software, they should definitely follow the important tactics listed by the authors.

References:

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